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# **PHASE I MIDFILED AVENUE BUILDING ACOUSTICAL STUDY**

## **30 Homes West of I-405 Between La Tijera Boulevard and Florence Avenue**

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LOS ANGELES COUNTY, CALIFORNIA  
KP 37.7/38.5 (PM 23.4/23.9)  
EA 07-1198U3

Prepared for:



**California Department of  
Transportation  
District 7  
100 South Main Street  
Los Angeles, California 90012**

May 26, 2005

Prepared by:



**PARSONS**

100 West Walnut Street, Pasadena, California 91124

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## EXECUTIVE SUMMARY

A noise measurement study was conducted at 30 residential properties located on Midfield Avenue adjacent to the west side of I-405 between La Tijera Boulevard and Florence Avenue in the Cities of Los Angeles and Inglewood, California. The purpose of the measurements was to determine if the traffic noise levels exceed California Department of Transportation's (Caltrans) "Unusual and Extraordinary Abatement" criteria of 75 dBA at outdoor living space areas. In a previous study conducted by Caltrans, it was determined that the 30 properties would be impacted by future traffic noise which exceeds the Caltrans exterior noise abatement criteria. However, a soundwall would not be effective in abating the traffic noise due to elevations of the properties with respect to the traffic lanes and right-of-way. Therefore, a two phase study is being conducted to determine the following: (1) which of the 30 properties qualify for the unusual and extraordinary abatement; and (2) which of qualifying properties could be benefited by installing acoustical treatments to the homes so that interior traffic noise levels are significantly reduced.

In this first phase of the study, traffic noise levels were monitored continuously on each residential property for several days to determine the maximum hourly average noise level ( $L_{eq}$ ) created by the I-405 traffic noise. In addition, two High Occupancy Vehicle (HOV) lanes will be fully operational within the next year in this area, and are expected to generate a 2 dB increase in future traffic noise levels. This projected increase was added to the measured level at each residential property to predict the future traffic noise impact with HOV lanes at each property. If the projected future traffic noise level is 75 dBA or higher, the residential building on that property qualifies for building acoustical treatment considerations.

Of the 30 residential properties, 28 homeowners gave permission and allowed access to their property to conduct the traffic noise measurements. The maximum future  $L_{eq}$  is over the 75 dBA criteria at the following seven properties: 7518, 7538, 7542, 7558, 7606, 7616, and 7634 Midfield Avenue. Table I shows the maximum future noise levels at all 28 properties, and those which exceed the criteria are shown in bold.

These seven properties would qualify for the building acoustics study for unusual and extraordinary traffic noise abatement. In Phase II, the noise reduction for each of the seven buildings will be measured to determine the maximum hourly  $L_{eq}$  on the inside of the homes. The noise reduction tests will measure the composite performance of the existing build construction materials in each of the homes. The noise reduction tests will determine weaknesses in the building shell such as walls, windows and doors, vents, and other noise flanking paths. The second phase of this study will also provide specifications to improve the building shell noise reduction for homes which are found to be above the Caltrans interior noise criteria.

TABLE I – SUMMARY OF THE MEASURED DATA

Address	Max Existing Leq, dBA	Caltrans Measured Leq, dBA	Max Future Leq, dBA
7518 Midfield Ave	75.3	--	<b>77.3</b>
7522 Midfield Ave	71.7	--	73.7
7528 Midfield Ave	71.3 *	--	73.3
7538 Midfield Ave	73.3	72.8	<b>75.3</b>
7542 Midfield Ave	75.2	76.0	<b>78.0</b>
7548 Midfield Ave	72.1	--	74.1
7552 Midfield Ave	69.9	--	71.9
7558 Midfield Ave	74.8	--	<b>76.8</b>
7562 Midfield Ave	70.9	--	72.9
7568 Midfield Ave	75.4 **	70.4 ***	72.4
7572 Midfield Ave	72.5	--	74.5
7578 Midfield Ave	72.6	--	74.6
7600 Midfield Ave	70.6	--	72.6
7606 Midfield Ave	74.3	72.0	<b>76.3</b>
7612 Midfield Ave	72.5	71.6	74.5
7616 Midfield Ave	74.3	--	<b>76.3</b>
7620 Midfield Ave	70.5	--	72.5
7626 Midfield Ave	68.8	--	70.8
7634 Midfield Ave	71.9	76.9	<b>78.9</b>
7700 Midfield Ave	71.6	--	73.6
7706 Midfield Ave	68.3	--	70.3
7710 Midfield Ave	68.2	--	70.2
7716 Midfield Ave	68.8	--	70.8
7722 Midfield Ave	69.0	--	71.0
7726 Midfield Ave	72.0	66.9	74.0
7732 Midfield Ave	65.0	--	67.0
7736 Midfield Ave	67.4	--	69.4
7742 Midfield Ave	64.3	--	66.3

Notes: \* The maximum measured Leq at 7528 was 76.3 which was measured with the microphone placed on top of a table near the back yard fence line to protect it from the property owner's dogs. Since the microphone height was above the fence line, the measured levels do not show the effect of the fence attenuation. Therefore, the measured traffic noise level was adjusted downward by 5 dB to include the effect of the fence attenuation. This adjustment is consistent with the measurements conducted at 7568, both with and without fence attenuation.

\*\* The maximum Leq at 7568 represents the traffic noise level at the top of the back yard fence, which was measured at the request of the property owner.

\*\*\* The maximum Leq measured by Caltrans was 1.5 meters (5 feet) above ground level, and was below the rear fence line. This position is consistent with Caltrans procedures and all other measurement locations; therefore, the Caltrans measurement was used to project the maximum future level.

**Bold** values indicate an impact which exceeds criteria.

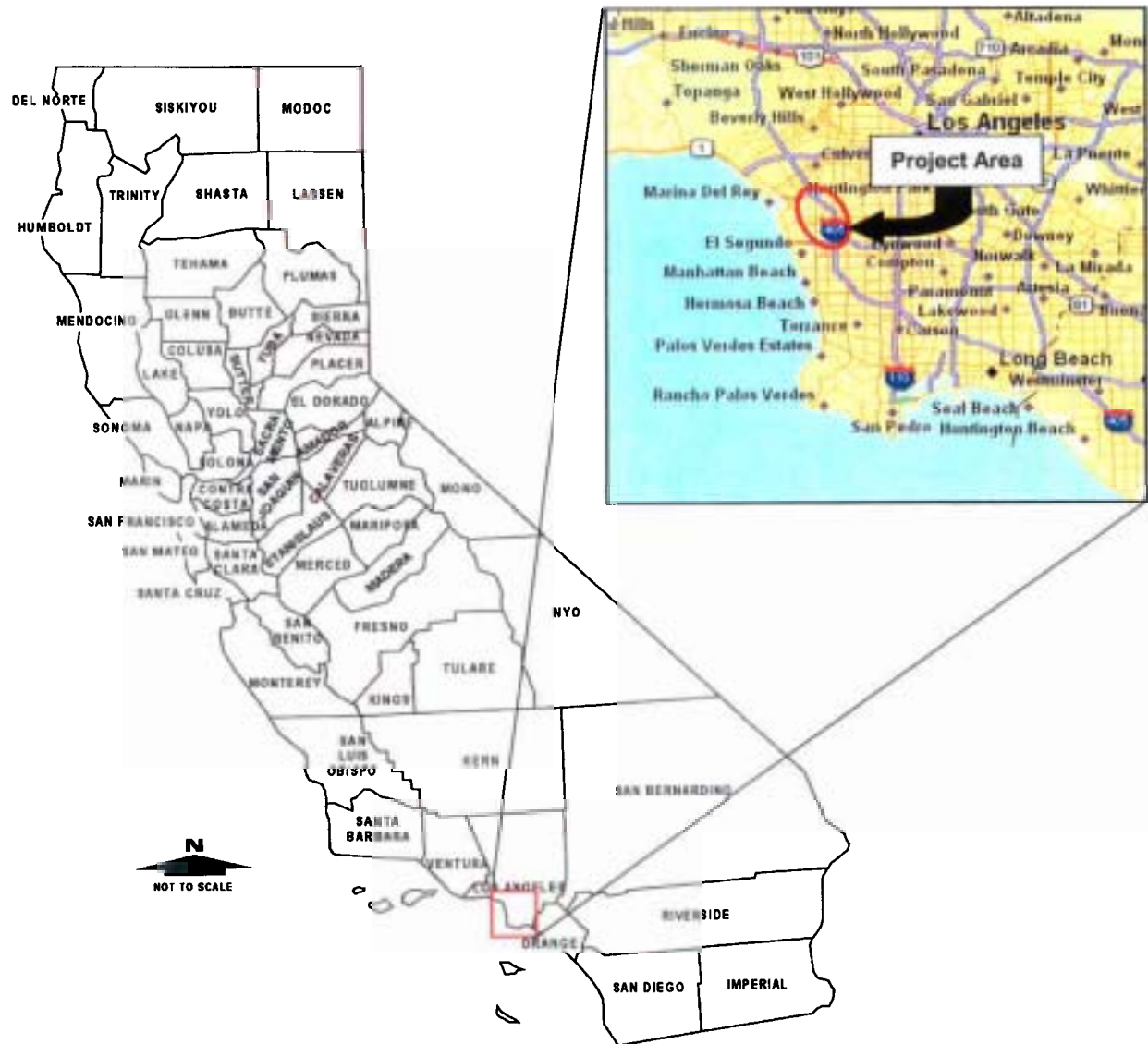
## 1.0 INTRODUCTION

This study was conducted to determine which homes among a group of houses located west of I-405 on Midfield Avenue between La Tijera Boulevard and Florence Avenue are qualified for acoustical building improvements in order to abate traffic noise. It was previously determined that a soundwall would not be effective in abating the traffic noise impact for approximately 30 homes in this area. Prior to this study, preliminary measurements were conducted by California Department of Transportation (Caltrans) at a few locations in the study area to determine how high the traffic noise levels currently are. Some were found to be above 75 dBA, which indicated that some homes may qualify for acoustical treatments. Figure 1 shows the project location map. Figure 2 is a vicinity map showing the region of residential properties included in this study, and the approximate locations of the existing soundwalls that were built just to the north and south of the study area.

A second phase of this study involves the analysis, design, and specification of acoustical building treatments. The second phase is anticipated to follow this study based on the conclusions of the traffic noise measurements presented herein.

## 2.0 PROJECT DESCRIPTION

Caltrans is constructing High Occupancy Vehicle (HOV) lanes on northbound and southbound of I-405 from north of Route 105 Freeway to south of Route 90 Freeway. As part of this project a noise study was conducted and soundwalls were recommended for several locations. Homes located in the study area are between two soundwalls. A soundwall within State right-of-way would not be feasible for these homes due to the depressed nature of the traffic lanes and right-of-way compared to the higher elevation of the residential properties. A soundwall inside the private property was considered but it was determined that it will not be feasible because all the homeowners did not agree with building a soundwall inside their property (Caltrans, 2001). Further more, the backyard fences of these homes are not inline with respect to each other, which makes it difficult to construct an effective continuous soundwall.







## FIGURE 2 – PROJECT VICINITY MAP

### 3.0 FUNDAMENTALS OF TRAFFIC NOISE

A brief discussion of fundamental traffic noise concepts is provided in this section.

#### **Sound, Noise, and Acoustics**

*Sound* is a disturbance created by a moving or vibrating source in a gaseous or liquid medium or the elastic stage of a solid and is capable of being detected by the hearing organs. Sound may be thought of as the mechanical energy of a vibrating object transmitted by pressure waves through a medium to a human ear. For traffic sound, the medium of concern is air. *Noise* is defined as sound that is loud, unpleasant, unexpected, or undesired.

#### **Frequency and Hertz**

A continuous sound can be described by its *frequency* (pitch) and its *amplitude* (loudness). Frequency relates to the number of pressure oscillations per second. Low-frequency sounds are low in pitch, like the low notes on a piano, whereas high-frequency sounds are high in pitch, like the high notes on a piano. Frequency is expressed in terms of oscillations, or cycles, per second. Cycles per second are commonly referred to as Hertz (Hz). The extreme range of frequencies that can be heard by the healthiest human ears spans from 16–20 Hz on the low end to about 20,000 Hz (or 20 kHz) on the high end.

#### **Sound Pressure Levels and Decibels**

The *amplitude* of a sound determines its loudness. Loudness of sound increases and decreases with increasing and decreasing amplitude. Sound pressure amplitude is measured in units of micro-Newton per square meter ( $\text{N/m}^2$ ), also called micro-Pascal ( $\mu\text{Pa}$ ). One  $\mu\text{Pa}$  is approximately one hundred billionths (0.0000000001) of normal atmospheric pressure. *Sound pressure level* ( $L_p$ ) is used to describe in logarithmic units the ratio of actual sound pressures to a reference pressure squared. These units are called decibels, abbreviated dB.

#### **Addition of Decibels**

Because decibels are logarithmic units, sound pressure levels cannot be added or subtracted by ordinary arithmetic means. When two sounds of equal  $L_p$  are combined, they will produce a combined  $L_p$ , which is 3 dB greater than the original individual  $L_p$ . In other words, sound energy must be doubled to produce a 3-dB increase. If two sound levels differ by 10 dB or more, the combined  $L_p$  is equal to the higher  $L_p$ ; in other words, the lower sound level does not increase the higher sound level.

#### **A-Weighted Decibels**

Sound pressure level alone is not a reliable indicator of loudness. The frequency, or pitch, of a sound also has a substantial effect on how humans will respond. Although the intensity (energy per unit area) of the sound is a purely physical quantity, the loudness or human response is determined by the characteristics of the human ear. In general, the healthy human ear is most sensitive to sounds between 1,000 Hz and 5,000 Hz, and it perceives a sound within that range as being more intense than a sound of higher or lower frequency with the same magnitude. A series of  $L_p$  adjustments is usually applied to the sound level at different frequencies to approximate the frequency response of the human ear. These adjustments are referred to as a *weighting network*. The A-scale weighting network approximates the frequency response of the average young ear when listening to most ordinary sounds. Noise levels for traffic noise reports are typically reported in terms of A-weighted decibels (dBA). In environmental noise studies, A-weighted  $L_p$ s are commonly referred to as noise levels. Figure 3 shows typical A-weighted noise levels.

### Human Response to Changes in Noise Levels

It is widely accepted that the average healthy ear can barely perceive noise level changes of 3 dB. A change of 5 dB is readily perceptible, and a change of 10 dB is perceived as being twice or half as loud. As discussed previously, a doubling of sound energy results in a 3 dB increase in sound, which means that a doubling of sound energy (e.g., doubling the volume of traffic on a highway) would result in a barely perceptible change in sound level.

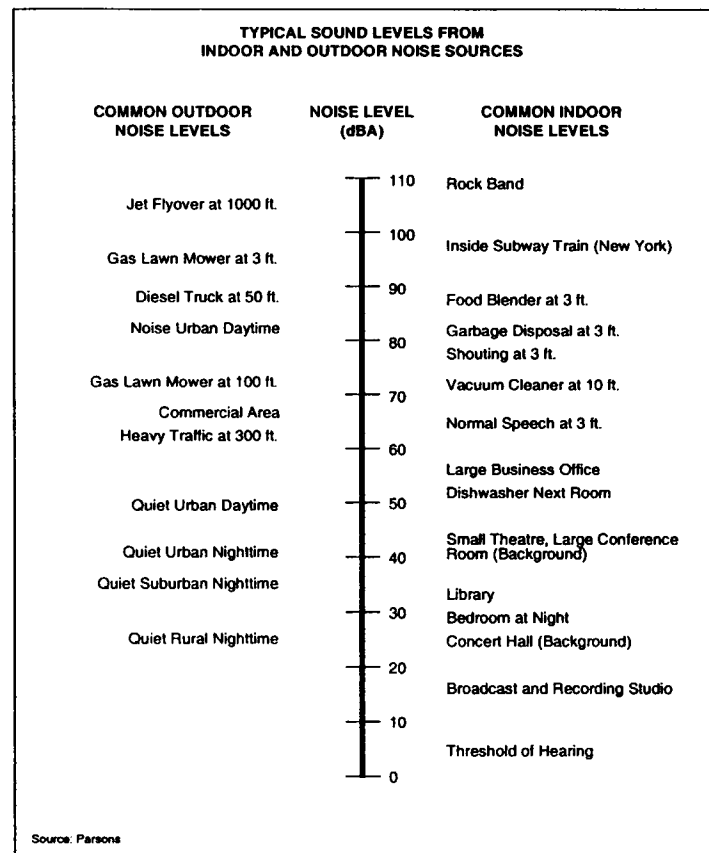
### Noise Descriptors

Noise in our daily environment fluctuates over time. Some noise levels occur in regular patterns, others are random. Some noise levels fluctuate rapidly, others slowly. Some noise levels vary widely, others are relatively constant. Various noise descriptors have been developed to describe time-varying noise levels. The following is a list of the noise descriptors most commonly used in traffic noise analysis:

- ❖ **Equivalent Sound Level ( $L_{eq}(h)$ )** -  $L_{eq}(h)$  represents an average of the sound energy occurring over a specified period.  $L_{eq}(h)$  is, in effect, the steady-state sound level that, in a stated period, would contain the same acoustical energy as the time-varying sound that actually occurs during the same period. The 1-hour A-weighted equivalent sound level,  $L_{eq}(h)$ , is the energy average of the A-weighted sound levels occurring during a 1-hour period and is the basis for Noise Abatement Criteria (NAC) used by Caltrans and the FHWA.
- ❖ **Maximum Sound Level ( $L_{max}$ )** -  $L_{max}$  is the highest instantaneous sound level measured during a specified period.
- ❖ **Insertion Loss (I.L.)** – I.L. is the actual noise level reduction at a specific receiver due to construction a noise barrier between the noise source (traffic) and the receiver. Generally, it is the net effect of the soundwall attenuation and the loss due to ground effects.

### Sound Propagation

When sound propagates over a distance, it changes in both level and frequency content. The manner in which noise reduces with distance depends on the following factors:



**FIGURE 3 – TYPICAL A-WEIGHTED NOISE LEVELS**

- ❖ **Geometric spreading** - Sound from a small, localized source (i.e., a point source) radiates uniformly outward as it travels away from the source in a spherical pattern. The sound level attenuates (or drops off) at a rate of 6 dB for each doubling of distance. Highway noise is not a single, stationary point source of sound. The movement of the vehicles on a highway makes the source of the sound appear to emanate from a line (i.e., a line source) rather than a point. This line source results in cylindrical spreading rather than the spherical spreading that results from a point source. The change in sound level from a line source is 3 dB per doubling of distance.
- ❖ **Ground absorption** - Most often, the noise path between the highway and the observer is very close to the ground. Noise attenuation from ground absorption and reflective wave canceling adds to the attenuation associated with geometric spreading. Traditionally, the excess attenuation has also been expressed in terms of attenuation per doubling of distance. For acoustically hard sites (i.e., those sites with a reflective surface, such as a parking lot or a smooth body of water, between the source and the receiver), no excess ground attenuation is assumed. For acoustically absorptive or soft sites (i.e., those sites with an absorptive ground surface, such as soft dirt, grass, or scattered bushes and trees, between the source and the receiver), an excess ground attenuation value of 1.5 dB per doubling of distance is normally assumed. When added to the geometric spreading, the excess ground attenuation results in an overall drop-off rate of 4.5 dB per doubling of distance for a line source and 7.5 dB per doubling of distance for a point source.
- ❖ **Atmospheric effects** - Research by Caltrans and others has shown that atmospheric conditions can have a significant effect on noise levels when noise receptors are located more than 60 meters (200 feet) from a highway. Wind has been shown to be the most important meteorological factor within approximately 150 meters (500 feet) of the source, whereas vertical air temperature gradients are more important for greater distances. Other factors such as air temperature, humidity, and turbulence also have significant effects.

### **Building Acoustics**

Under conditions of extraordinary traffic noise impact, noise abatement strategies such as improved building insulation can be considered to reduce the exterior noise level at the interior of building structures. Improvement in a building's sound insulation can be achieved by using items such as: sound-rated windows and doors, additional glass fiber or similar insulating material for walls and attic spaces, perimeter caulking at adjoining building elements, an air-conditioning system so that windows may remain closed during hot weather, and treatments to exterior vents to prevent noise from entering the building through the vent or duct. Typical residential building construction generally provides 10 to 15 dB of noise reduction from the exterior to the interior when windows are open for ventilation, and 18 to 23 dB of reduction with closed windows. When acoustical treatments such as those mentioned above are applied to a residential building, the noise reduction performance can range from 25 to 35 dB, an increase of 7 to 12 dB compared to a non-treated building with windows closed.

## 4.0 STATE POLICIES AND PROCEDURES

The Caltrans noise abatement design goals include provisions for applying acoustical building treatments to impacted residences in order to abate traffic noise at the interior of the home. Although rarely employed, this measure is considered when conventional types of abatement such as soundwalls are found to be ineffective. This type of noise abatement falls into a special category called, “Unusual and Extraordinary Abatement.” The following is taken from the Caltrans Traffic Noise Analysis Protocol document (Caltrans, 1998a):

*Noise insulation will not normally be provided in private residential dwellings, and may be provided only when severe traffic noise impacts are anticipated and normal abatement measures are physically not feasible or are economically unreasonable. When considering extraordinary abatement measures, it must be demonstrated that the affected activities experience traffic noise impacts to a far greater degree than other similar activities adjacent to highway facilities; i.e., private residential dwelling units will have after-project exterior noise levels of 75 dBA,  $L_{eq}(h)$ , or more...”*

Therefore, the noise limit criteria used in this study will be a peak noise hour  $L_{eq}$  of 75 dBA. Any home where the projected future traffic noise level with the proposed HOV lanes is found to be equal to or above the 75 dBA limit qualifies for further consideration of acoustical building treatments. Acoustical building treatments are applied to the home to improve the noise insulation from the exterior to the interior of the home. Acoustical treatments may consist of one or more of the following: replacement of existing windows and doors with sound-rated products; caulking applications; treatments to exterior penetrations such as vents; the addition of insulation materials; and the installation of air-conditioning systems for the purpose of allowing the homeowner to keep windows and doors closed for traffic noise abatement. The following statement is also taken from the Caltrans protocol:

*“When noise abatement is provided for public or private properties in line with this policy, an agreement must be entered into with the owner of the subject property which specifies that Caltrans is not responsible for any future costs of operating and/or maintaining the noise abatement improvements; i.e., air conditioning, caulking, etc.”*



## 5.0 STUDY METHOD AND PROCEDURES

Thirty homes were originally selected for this study in the 7500, 7600, and 7700 blocks of Midfield Avenue based on prior studies that determined which properties could not be abated effectively with soundwalls. A letter was sent from Caltrans to thirty homeowners requesting their participation in the acoustical study, and their consent to access their property. A blank sample of the signed letter is included in Appendix A. The homeowners were contacted by phone the week before the measurements to arrange for access to their property. While contacting the homeowners by phone to schedule access to the property, noise measurement systems were confirmed for installation at 28 homes. Of the remaining two, one homeowner (7746) withdrew their agreement to participate stating that the measurements would impose an inconvenience and, they had already installed acoustical building treatments similar to those that would be considered in this project. The second homeowner (7532) indicated that their pet would likely disturb and possibly damage the measurement equipment if left unattended in the backyard. The homeowner was unwilling to restrain or isolate the pet throughout the duration of the measurements to insure this would not happen. No measurements were conducted at those two properties.

Originally, 28 noise measurement systems were configured to measure the hourly Leq continuously at each location. All systems were also set to record hourly statistics including the minimums, maximums, and exceedance percentiles. This data was stored internally in the measurement systems so that it could be downloaded at the end of the measurements. Weather conditions were noted during the initial set-up of the instrumentation. The temperature and relative humidity were monitored and recorded continuously throughout the week at one of the measurement sites. Wind speed and direction were measured and recorded during the first twelve hours of the tests at the same site. Additional wind data was collected from a weather data service for the Santa Monica area (Weather, 2005). Figures 4 through 6 provide a layout plan showing the measurement locations.

The noise measurements began on Monday, January 24, 2005 and continue throughout the week. One of the measurement systems failed during this measurement week; therefore, it had to be repeated at a later date. The following is a list of the equipment that was used for this study:

### Sound Level Meter Systems:

- 17 Larson Davis model 870A sound level meters with model 900B microphone preamplifiers having an American National Standards Institute (ANSI) Type 1 accuracy rating. (One of these systems was used during the week of January 24th, and a second time during the week of February 28th, when one of the measurements had to be repeated.)
- 5 Rion model NL-31 sound level meters and preamplifiers having an ANSI Type 1 accuracy rating.
- 3 Larson Davis model 2900 sound level meters with model 900B microphone preamplifiers having an ANSI Type 1 accuracy rating.
- 1 Larson Davis model 820 sound level meter with a model 828 microphone preamplifier having an ANSI Type 1 accuracy rating.
- 1 Larson Davis model 812 sound level meter with a model 828 microphone preamplifier having an ANSI Type 1 accuracy rating.
- 27 1/2-inch, random-incidence, voltage-polarized or pre-polarized condenser microphones as recommended by the manufactures for suitable use with the above sound level metering systems certified to meet an ANSI Type 1 accuracy rating.

Weather Systems:

- Kestrel 3000 Pocket Weather Meter for temperature and relative humidity checks.
- Davis Instruments meteorological monitoring system model Weather Wizard III attached to a portable computer for the collection and storing of continuous temperature, wind, and humidity data.
- Onset Computer Corporation HOBO, Pro Series, model H08-032-08 humidity sensor and data logger, with solar radiation shield.

Other Instrumentation:

- Microphone cables and tripod mounts for the microphones.
- 2 Larson Davis model CA250 and 1 Bruel & Kjaer type 4230 acoustical field calibrators.
- Microphone wind screens: 4-inch and 6-inch diameter for pre-polarized microphones, and outdoor environmental protection systems for non-polarized microphones.
- External batteries and A/C power adapters as required for powering the sound level meter systems.
- Larson Davis model 2510 1.44 MB external floppy drive accessory for LD2900 sound level meter data retrieval.

Selection of the microphone measurement position are base on the following requirements:

- Common outdoor human use area.
- Acoustically representative and equivalent of the area of concern.
- Locations expected to receive the highest noise impacts.

Noise measurements were conducted in conformance with Caltrans' Technical Noise Supplement (Caltrans, 1998b). The followings are the brief descriptions of measurement procedures:

- Most of the microphones for sound level meters were placed 1.5 meters (5 feet) above the ground, deck, or patio areas for the noise measurements. Exceptions to this are described below.
- Sound level meters were calibrated before and after each measurement. Any differences in the calibration were noted.
- Following calibration of equipment a wind screen was placed over the microphone.
- Frequency weighting was set on "A" and slow response.

Table 1 provides a list of the measurement addresses, equipment types, microphone positions, and property line wall information. Installations on decks or raised patios resulted in a microphone height which was higher than 1.5 meters (5 feet) above the surrounding ground and yard areas. Many of the homes contained wooden or masonry fences parallel to I-405, which crossed through the back of the property, at a point where the terrain began slopping down toward the highway. At one location (7568), the owner stated that the wooden fence located at the back of the rear yard would be removed, and requested that the measurement be conducted so that the fence does not influence the traffic noise. Therefore, the microphone was placed approximately 0.6 meters (2 feet) above the top of the fence at the owner's request. At another location (7528), the microphone was placed on top of a 0.9 meter (3 feet) high table near the rear fence line to prevent the owners dogs from tipping the tripod over during the measurements. This also produced a microphone height which was above the rear fence line. Appendix B contains photographs of each noise measurement position.

The weather monitoring station was installed at 7606 Midfield Avenue which is located approximately midway between the 28 measurement positions. The weather station was set to record wind speed and direction, temperature, and relative humidity. The location of the weather monitoring station is shown on Figure 4, with photographs of it shown in Appendix B.

**TABLE 1 – NOISE MEASUREMENT LOCATIONS**

Midfield Avenue Address	Equip Type	Microphone Position	North Property Line Wall Hgt, meters (feet) & Type	East Property Line Wall Hgt, meters (feet) & Type	South Property Line Wall Hgt, meters (feet) & Type
7518	LD 870	17.7 m (58 ft) from back of house, 1.5 m (5 ft) above ground	none	none	none
7522	Rion NL31	10.2 m (33.5 ft) from back of house, 1.5 m (5 ft) above ground	1.7 (5.5) masonry	1.2 (4) masonry	1.4 (4.7) masonry
7528	LD 870	0.9 m (3 ft) from E. fence line on top of table, 1.5 m (5 ft) above table top *	1.5 (5) masonry	1.8 (6) wood	garage
7532	--	Not Installed because of dogs.	--	--	--
7538	LD 870	12.8 m (42 ft) from back of house, 1.5 m (5 ft) above ground	2.1 (7) wood	none	1.4 (4.5) wood
7542	Rion NL31	4.4 m (14.5 ft) from back of house, 1.5 m (5 ft) above conc deck area	none	none	1.8 (6) wood
7548	LD 870	9.3 m (30.5 ft) from back of house, 1.5 m (5 ft) above ground	1.8 (6) wood	none	2.1 (7) masonry
7552	LD 870	even with back of house on raised patio 1.5 m (5 ft) above raised patio	1.5 (5) masonry	2.1 (7) wood	garage
7558	LD 870	6.7 m (22 ft) from back of house, 1.5 m (5 ft) above ground	garage	none	greenhouse
7562	LD 870	2.7 m (9 ft) from back of house on deck, 1.5 m (5 ft) above deck	2.4 (8) masonry, wood	2.4 (8) wood	1.9 (6.3) masonry
7568	LD 870	8.5 m (28 ft) from back of house on rear fence, 2.1 m (7 ft) above ground **	1.7 (5.5) masonry	1.5 (5) wood	1.5 (5) masonry
7572	Rion NL31	3.5 m (11.5 ft) from back of house on deck, 2.3 m (7.7 ft) above ground	1.5 (5) masonry	1.8 (6) wood & sheds	3.0 (10) wood fence above masonry wall
7578	LD 870	3.0 m (10 ft) from back of house on deck, 1.5 m (5 ft) above the deck	1.8 (6) masonry	1.8 (6) wood	1.8 (6) masonry
7600	LD 2900	4.6 m (15 ft) from back of house, 2.1 m (7 ft) above ground attached to post to protect from owner's dog	1.4 (4.5) masonry	2.6 (8.5) wood	1.8 (6) wood

Notes: \* The measured noise levels at 7528 represents the traffic noise level near the back yard fence on top of a table in order to keep the equipment out of reach of the owner's dogs.

\*\* The measured noise levels at 7568 represents the traffic noise level at the top of the back yard fence, which was measured at the request of the property owner.



**TABLE 1 (CONT'D) – NOISE MEASUREMENT LOCATIONS**

Midfield Avenue Address	Equip Type	Microphone Position	North P.L. Wall Hgt, meters (feet) & Type	East P.L. Wall Hgt, meters (feet) & Type	South P.L. Wall Hgt, meters (feet) & Type
7606	LD 870 & weather sta.	3 m (10 ft) from back of house on patio deck, 1.5 m (5 ft) above deck	1.8 (6) wood	1.7 (5.5) wood	none
7612	Rion NL31	11.6 m (38 ft) from back of house, 1.5 m (5 ft) above ground	none	none	1.7 (5.5) wood
7616	LD 870	2.1 m (7 ft) from back of house, 1.5 m (5 ft) above ground	1.2 (4) wood	none	1.8 (6) wood
7620	Rion NL31	5.8 m (19 ft) from back of house, 1.5 m (5 ft) above ground	1.8 (6) wood	1.8 (6) wood	1.8 (6) wood
7626	LD 870	4.6 m (15 ft) from back of house, 1.5 m (5 ft) above ground	1.7 (5.5) wood	1.7 (5.5) wood	1.7 (5.5) wood & garage
7634	LD 820	4.6 m (15 ft) from back of house, 1.5 m (5 ft) above ground	none	none	none
7700	LD 870	8.8 m (29 ft) from back of house, 1.5 m (5 ft) above ground	1.8 (6) wood	none	1.8 (6) wood
7706	LD 2900	4.0 m (13 ft) from back of house, 1.5 m (5 ft) above ground	1.8 (6) wood	1.8 (6) wood	1.8 (6) wood
7710	LD 870	4.6 m (15 ft) from back of house, 1.5 m (5 ft) above ground	1.8 (6) masonry & wood	2.7 (9) wood	1.8 (6) masonry & wood
7716	LD 870	4.9 m (16 ft) from back of house, 1.5 m (5 ft) above ground	1.8 (6) masonry & wood	1.2 (4) wood	2.3 (7.5) wood
7722	LD 870	5.5 m (18 ft) from back of house, 1.5 m (5 ft) above ground	1.8 (6) wood	none	1.8 (6) wood
7726	LD 870	3.7 m (12 ft) from back of house on patio, 1.5 m (5 ft) above ground	2.4 (8) wood	2.4 (8) wood	2.4 (8) wood
7732	LD 870	7.3 m (24 ft) from back of house, 1.5 m (5 ft) above ground	2 (6.5) masonry	2 (6.5) masonry & shed	1.8 (6) masonry
7736	LD 2900	11.9 m (39 ft) from back of house, 1.5 m (5 ft) above ground	1.8 (6) masonry	none	1.8 (6) masonry
7742	LD 812	4.6 m (15 ft) from back of house, 1.5 m (5 ft) above ground	1.5 (5) masonry	2.4 (8) masonry	1.5 (5) masonry
7746	--	Owner decided not to participate in study.	--	--	--

## 6.0 ANALYSIS AND RESULTS

### 6.1 WEATHER CONDITIONS

Skies ranged from hazy sun to mostly cloudy on Monday and Tuesday, January 24th and 25th, 2005. Weather reports forecasted rain for Wednesday, and therefore all microphones were covered with a plastic bag between 7:00 and 9:00 p.m. on Tuesday evening. Rain and wet periods occurred during the following periods:

- Tuesday evening (1-25-05) starting at 8 p.m. through 8 a.m. Wednesday morning.
- Friday morning (1-27-05) starting at 8 a.m. off and on until midnight Friday night.

The microphones were uncovered between Wednesday evening at 6:00 p.m. and Thursday morning at 11:00 a.m. However, the microphone systems were not covered on Friday. The weekend weather was partly cloudy to mostly sunny. All data during rainy periods are unreported since rain causes an inaccurate measurement of the traffic noise. Although temperature and humidity measurements continued throughout the duration of the noise measurements, the wind data logger experienced a problem and stopped recording data after approximately 12 hours of recording. During that time, wind conditions were mostly calm and the average wind speed never rose above 6.4 km/h (4 mph). Generalized wind data for the Santa Monica area was also obtained and tabulated (Weather, 2005). The weather monitoring data is shown in Appendix C.

### 6.2 NOISE MEASUREMENT DATA

All but three of the 28 measurement systems were functional and collecting data by 4 p.m. Monday evening, January 24, 2005. The measurement system at 7732 became operational at 5:00 p.m. The system at 7528 became operational at 6:00 pm. The third system at 7562, malfunctioned and did not collect any data during that week. However, the measurement was repeated at 7562 during the week of February 28 through March 4, 2005. There were no roadway construction activities occurring during either of these measurement weeks.

After a final field calibration, the measurement systems were retrieved from the residential properties. The data was downloaded from all instruments, and the before and after calibration records were compared to determine calibration drift. The calibration drift was between 0.0 and 0.4 dB at all 28 measurement sites. No adjustments were made for calibration drift.

The hourly  $L_{eq}$  noise levels were plotted and reviewed to see if any anomalies were causing the hourly patterns to be unusually high. If an unusual pattern was found, the statistical levels and history data for those periods were reviewed to determine if the data suggested any noise characteristics that are inconsistent with typical traffic noise. Comparisons were also made at adjacent measurement sites to determine if the noise was local to the microphone. If a high noise level affected only one site but not adjacent sites, this suggests a non-traffic related noise. If a high noise level appeared at two or three adjacent sites, this suggests either an unusually loud motor vehicle or an aircraft overflight. If data was found that is inconsistent with known traffic noise characteristics, the measured level was flagged as “non-traffic related noise” on the measurement graphs. A summary of the measured levels are provided in Table 2. The measurement graphs,  $L_{eq}$  data, and field measurement notes for all 28 measurement locations are provided in Appendix D.

Table 2 shows the highest hourly  $L_{eq}$  that was measured for each day of the week, and the highest level for the entire week of measurement, shown as “Max Existing  $L_{eq}$ .” The Caltrans measurements conducted in April and May of 2004 are also provided in Table 2. The future noise level was projected to include the traffic noise increase due to the new HOV lanes (currently under construction) by adding 2 dB to the highest measured level (Caltrans, 2001).

TABLE 2 – SUMMARY OF THE MEASURED NOISE LEVELS

Address	Highest Recorded Hourly Leq Per Day, dBA							Max Existing Leq, dBA	Caltrans Measured Leq, dBA	Max Future Leq, dBA
	Monday 1/24/2005	Tuesday 1/25/2005	Thursday 1/27/2005	Friday 1/28/2005	Saturday 1/29/2005	Sunday 1/30/2005	Monday 1/31/2005			
7518 Midfield Ave	74.9	75.3	--	--	--	--	--	75.3	--	77.3
7522 Midfield Ave	70.5	71.3	71.1	71.7	71.5	71.3	--	71.7	--	73.7
7528 Midfield Ave	74.1	74.7	76.3	75.3	74.6	75.3	75.2	71.3 *	--	73.3
7538 Midfield Ave	70.8	71.7	72.5	72.9	72.8	73.3	73.3	73.3	72.8	75.3
7542 Midfield Ave	74.2	74.8	75.2	75.0	74.7	75.0	--	75.2	76.0	78.0
7548 Midfield Ave	70.5	71.5	71.6	71.6	71.8	72.1	71.8	72.1	--	74.1
7552 Midfield Ave	65.9	67.2	67.0	67.4	69.9	68.3	68.2	69.9	--	71.9
7558 Midfield Ave	73.8	74.5	74.4	74.8	73.9	74.5	74.8	74.8	--	76.8
7568 Midfield Ave	74.5	75.0	75.4	75.0	75.2	73.6	--	75.4 **	70.4 ***	72.4
7572 Midfield Ave	70.1	71.0	70.8	71.5	72.5	71.2	--	72.5	--	74.5
7578 Midfield Ave	70.6	71.5	71.3	71.9	72.6	72.1	72.1	72.6	--	74.6
7600 Midfield Ave	69.6	70.2	70.0	70.6	70.6	70.4	70.2	70.6	--	72.6
7606 Midfield Ave	72.9	73.5	73.6	73.9	74.3	74.1	74.0	74.3	72.0	76.3
7612 Midfield Ave	71.3	72.2	72.0	72.3	72.5	72.0	--	72.5	71.6	74.5
7616 Midfield Ave	73.4	74.0	74.3	74.0	74.1	74.1	74.1	74.3	--	76.3
7620 Midfield Ave	67.3	68.1	68.4	68.2	70.5	69.0	--	70.5	--	72.5
7626 Midfield Ave	65.4	66.2	66.4	65.3	68.8	67.6	67.1	68.8	--	70.8
7634 Midfield Ave	71.1	71.6	71.5	71.8	70.4	71.1	71.9	71.9	76.9	78.9
7700 Midfield Ave	70.1	71.6	70.5	71.1	69.9	70.8	71.0	71.6	--	73.6
7706 Midfield Ave	66.1	67.3	67.6	68.3	68.0	67.1	--	68.3	--	70.3
7710 Midfield Ave	66.3	66.6	66.7	66.7	68.2	66.7	67.1	68.2	--	70.2
7716 Midfield Ave	67.8	68.3	68.1	68.6	68.8	68.4	68.5	68.8	--	70.8
7722 Midfield Ave	68.0	68.3	68.6	68.8	68.7	69.0	68.9	69.0	--	71.0
7726 Midfield Ave	64.2	66.2	65.5	66.2	66.1	72.0	65.6	72.0	66.9	74.0
7732 Midfield Ave	62.3	62.8	63.2	64.6	65.0	64.2	63.9	65.0	--	67.0
7736 Midfield Ave	65.5	65.8	67.4	66.0	66.0	67.4	67.0	67.4	--	69.4
7742 Midfield Ave	61.8	61.6	62.7	61.7	64.3	63.8	63.6	64.3	--	66.3
	Monday 2/28/2005	Tuesday 3/1/2005	Wednesday 3/2/2005	Thursday 3/3/2005	Friday 3/4/2005	Saturday 3/5/2005	Sunday 3/6/2005			
7562 Midfield Ave	69.3	70.7	70.9	69.4	69.2	--	--	70.9	--	72.9

Notes: \* The maximum measured Leq at 7528 was 76.3 which was measured with the microphone placed on top of a table near the back yard fence line to protect it from the property owner's dogs. Since the microphone height was above the fence line, the measured levels do not show the effect of the fence attenuation. Therefore, the measured traffic noise level was adjusted downward by 5 dB to include the effect of the fence attenuation. This adjustment is consistent with the measurements conducted at 7568, both with and without fence attenuation.

\*\* The maximum Leq at 7568 represents the traffic noise level at the top of the back yard fence, which was measured at the request of the property owner.

\*\*\* The maximum Leq measured by Caltrans was 1.5 meters (5 feet) above ground level, and was below the rear fence line. This position is consistent with Caltrans procedures and all other measurement locations, and was therefore used to project the maximum future level.

**Bold** values indicate an impact which exceeds criteria.

At some locations, the Caltrans measured data is higher than the measured data in this study. The higher of the two was used as the basis for projecting the future noise level. Table 2 shows future projection as the “Max Future Leq.”

The maximum Leq's at 7568 Midfield were measured with the microphone placed at the top of the rear fence line at the request of the property owner who stated that the fence would be removed. However, Caltrans does not consider the traffic noise level at the top of a property line fence to be representative of the impact to the outdoor use area. Therefore, the Caltrans measurement result shown in Table 2 substituted at this location since the maximum Leq measured by Caltrans was 1.5 meters (5 feet) above ground level, and is consistent with other measurement positions. This position is consistent with Caltrans procedures and all other measurement locations, and was therefore used to project the maximum future level at that location.

In Table 1, the maximum measured Leq at 7528 was 76.3 on Thursday, the 27<sup>th</sup> of January. The traffic noise levels at this location were measured with the microphone placed on top of a table near the back yard fence line to protect it from the property owner's dogs. Since the microphone height was above the fence line, the measured levels do not show the effect of the fence attenuation. Therefore, the measured traffic noise level was adjusted downward by 5 dB to include the effect of the fence attenuation, estimated at 71.3. This adjustment is consistent with the measurements conducted at 7568, both with and without fence attenuation.

The Centinela Adobe home property located at 7634 Midfield Avenue is owned by the City of Inglewood, and has a total of three structures. Per the Caltrans Environmental Division, the Adobe home has been listed with the National Historic Registry since 1974. There are very stringent restrictions on this dwelling, especially for upgrading or acoustical treatments. Windows are not allowed to be replaced and other types of abatement such as sealing is limited. If noise reduction treatments are to be done at this location, Caltrans will need to confer and comply with the National Registry guidelines, and insure that the modifications are in strict conformance. In addition, the acoustical treatments cost should be estimated substantially higher than other locations due the stringent requirements for historic structures. There is also a second structure on the same property which is anticipated to also be on the historic registry as a museum home. The same guidelines would apply for it as well. The third structure on the property, which is a museum was constructed about 20 years ago and is not listed in the registry.

## 7.0 CONCLUSIONS

Of the 28 measurement locations, the maximum future  $L_{eq}$  is over the 75 dBA criteria at the following seven properties: 7518, 7538, 7542, 7558, 7606, 7616, and 7634 Midfield Avenue. The maximum future noise levels in Table 2 which exceed the criteria are shown in bold.

These seven properties would qualify for Phase II of the building acoustics study for traffic noise abatement. In Phase II, the noise reduction for each of the seven buildings will be measured to determine the maximum hourly  $L_{eq}$  on the inside of the homes. The noise reduction tests will measure the composite performance of the existing build construction materials in each of the homes.

## 8.0 REFERENCES

- Caltrans, 1998a. California Department of Transportation. Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects, October.
- Caltrans, 1998b. California Department of Transportation. Technical Noise Supplement to the Traffic Noise Analysis Protocol, October.
- Caltrans, 2001. Noise Study Report, Route 405 Freeway, from north of Route 105 Freeway to south of Route 90 Freeway, prepared by California Department of Transportation, January.
- Weather, 2005. The Weather Channel internet site, [www.weather.com](http://www.weather.com) weather report data for Santa Monica, California; data was collected for dates January 24 through January 31, and March 1 through March 3.

**APPENDIX A**

**Sample Homeowners Letter of Consent**

STATE OF CALIFORNIA - BUSINESS, TRANSPORTATION AND HOUSING AGENCY

ARNOLD SCHWARTZENEGGER, Governor

## DEPARTMENT OF TRANSPORTATION

## SOUTHERN RIGHT OF WAY REGION

District 07 R/W Field Office

100 South MAIN Street  
Los Angeles, CA 90012

Phone: (213) 897-1901

Fax: (213) 897-1962



December 7 2004

07-LA-405

EA: 1198U3

APN:

Dear Property Owner:

The California Department of Transportation (Caltrans) will be conducting the first phase of a noise abatement study for 30 homes located along Midfield Avenue in Los Angeles. The second phase will only include the properties where the noise level as indicated by the noise study results is 75 decibels or more. The Department of Transportation has installed soundwalls to abate the noise from interstate 405 Freeway between La Tierja and Florence Boulevard in Los Angeles. The soundwalls are not effective in abating noise impacts on approximately 30 houses that are located at higher elevations than the Freeway. The purpose of this letter is to notify you that the noise study or test originally planned for December has been rescheduled for the month of January. Therefore another permit needs to be signed by every property owner.

The Environmental Engineering Branch will need a Permit to Enter from each owner in order to access the property to conduct the noise study or tests. The consultant hired to perform the tests will require access to the property from January 10, 2005 through January 15, 2005. The consultant will need to install the equipment, and once the 72-hour noise abatement study is completed remove the equipment from your property. Please note if there is rainfall the noise study will be cancelled and rescheduled to a later date.

A microphone will be securely mounted on a five-foot high tripod, and a noise level meter will be placed in the rear yard. The items will be placed in the rear of the property within the study limits. Photographs will be taken of the subject property and the studies will be completed by October of 2005. The noise measuring devices and equipment must not be tampered with once they are placed on the property.

The Department would like to complete the first phase of the noise abatement study as soon as possible. Therefore indicate in the space provided on the following page the best date and time to contact you, provide your phone number, and list any special conditions regarding your property that the consultant needs to know in order to perform the study.

Please return the signed permit to this office by December 22 2004, a self-addressed envelope has been enclosed for your convenience. (a copy is enclosed for your records) The consultants employed by Parsons Engineering Company, and he will contact you regarding the date and time to install the equipment.

Sincerely yours

Right of Way Agent

SOUTHERN RIGHT OF WAY REGION  
21073 PATHFINDER, SUITE 100  
DIAMOND BAR, CA 91167  
PHONE: (909) 468-1500  
TDD: (909) 735-2929  
FAX: (909) 468-1601

District 08 R/W Field Office  
464 W. Fourth St.  
San Bernardino, CA 92401-1400  
Phone: (909) 383-6239  
Fax: (909) 383-6877

District 12 R/W Field Office  
2501 Pullman Street, Bldg. "C"  
Santa Ana, CA 92705  
Phone: (714) 734-2308  
Fax: (714) 724-7899



Parcel: APN NO.

Page 2 of 2

Permission is hereby granted the State of California, Department of Transportation to enter upon the property located at 7548 Midfield Avenue. in the City of Los Angeles to conduct the noise abatement study.

The owners will be relieved from any liability caused by or in connection with the performance of the noise Abatement study by the State, Department of Transportation and /or its representatives.

The State shall defend, indemnify, and hold the owner's or their agent, harmless from any liability Caused by the State's operations.

Thank you for your cooperation in this matter. Should you have any questions regarding this request, please contact me at

---

---

**ACKNOWLEDGEMENT OF RECEIPT OF THIS LETTER AND CONSENT TO ENTER THE PROPERTY**

\_\_\_\_\_  
Owner's signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Telephone number

APPROVED BY:

STATE OF CALIFORNIA  
Department of Transportation

\_\_\_\_\_  
Deborah C. Meyers  
Branch Chief  
R/W Acquisition

\_\_\_\_\_  
Date

## **APPENDIX B**

### **Measurement Position Photographs**



7518 Midfield Avenue



7522 Midfield Avenue



7528 Midfield Avenue



7538 Midfield Avenue





7542 Midfield Avenue



7548 Midfield Avenue



7552 Midfield Avenue



7558 Midfield Avenue



7562 Midfield Avenue



7568 Midfield Avenue





7572 Midfield Avenue



7578 Midfield Avenue





7600 Midfield Avenue



7606 Midfield Avenue



7612 Midfield Avenue



7616 Midfield Avenue





7620 Midfield Avenue



7626 Midfield Avenue



**7634 Midfield Avenue**



**7700 Midfield Avenue**





**7706 Midfield Avenue**



**7710 Midfield Avenue**



**7716 Midfield Avenue**



**7722 Midfield Avenue**





7726 Midfield Avenue



7732 Midfield Avenue



**7736 Midfield Avenue**



**7736 Midfield Avenue**





7742 Midfield Avenue



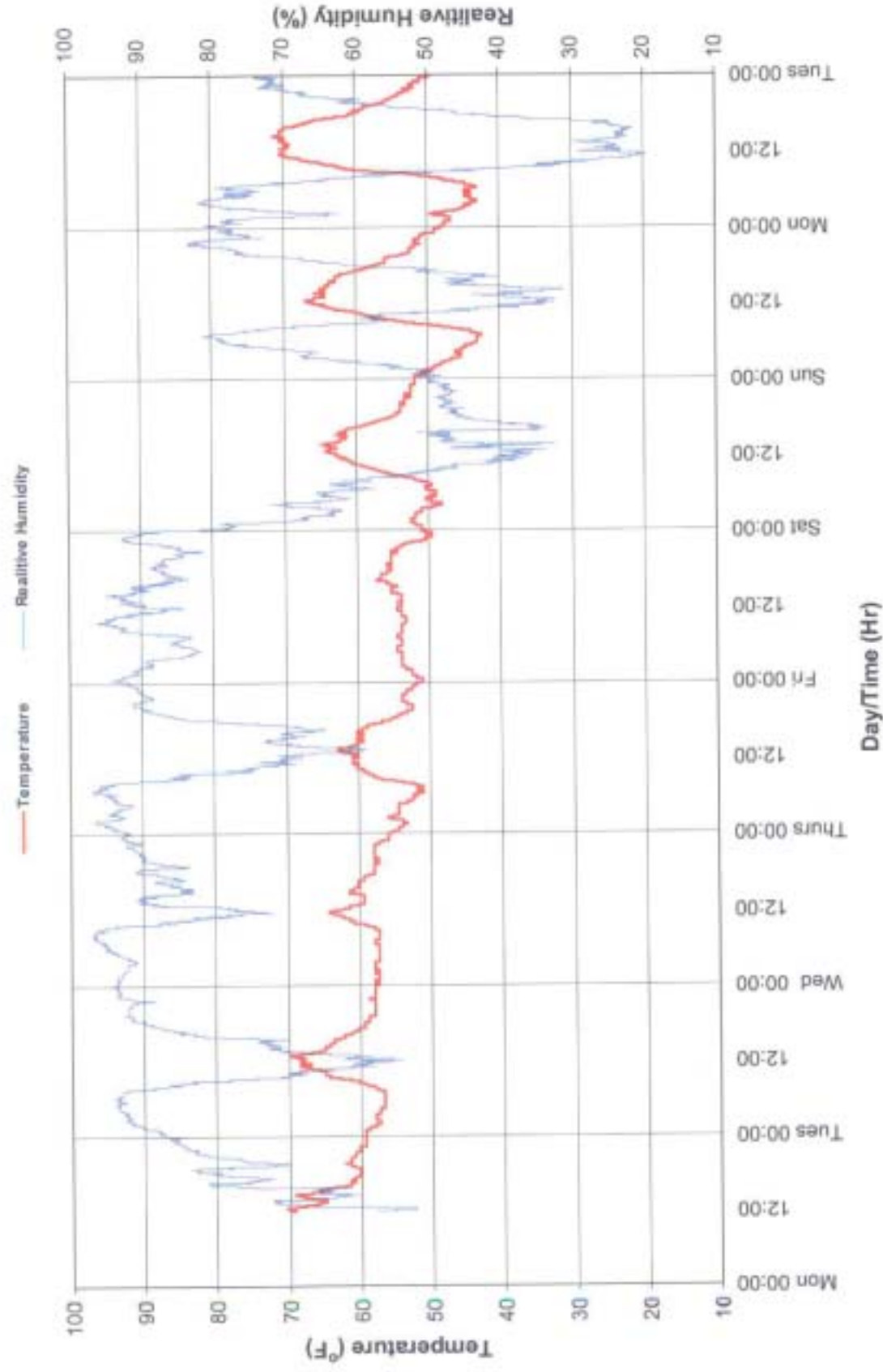
**Weather Station at 7606 Midfield Avenue**



**Weather Station at 7606 Midfield Avenue**

## APPENDIX C

### Weather Monitoring Data



Temperature and Relative Humidity Data Measured at 7606 Midfield Avenue  
from January 24 through February 1, 2005

## Wind Data for Santa Monica Area

Date	Time	Wind Data	
		Speed, mph	Direction
Mon-24-Jan	12:00	9	SW, WSW
	13:00	Calm, 3-8	WSW, SSE
	14:00	6	SW
	15:00	8	SW
	16:00	Calm, 7	SW
	17:00	Calm	--
	18:00	3	ENE
	19:00	Calm	--
	20:00	5	SW
	21:00	Calm	--
	22:00	Calm	--
	23:00	Calm	--
Tue-25-Jan	0:00	Calm	--
	1:00	3	NE
	2:00	5	NNE
	3:00	3	NNE
	4:00	5	NNE
	5:00	3	NE
	6:00	3	E
	7:00	Calm	--
	8:00	Calm, 6	ENE
	9:00	5	E
	10:00	Calm	--
	11:00	5	S
	12:00	8	SSW
	13:00	6	WSW
	14:00	5	Variable
	15:00	6	SW
	16:00	5	Variable
	17:00	6	SW
	18:00	Calm	--
	19:00	Calm	--
	20:00	Calm	--
	21:00	7	WSW
	22:00	3-5	WSW, Variable
	23:00	Calm	--
Wed-26-Jan	0:00	Calm	--
	1:00	Calm	--
	2:00	Calm	--
	3:00	Calm	--
	4:00	Calm	--
	5:00	Calm	--
	6:00	Calm, 3	Variable
	7:00	Calm	--
	8:00	3	SW
	9:00	Calm, 3	Variable
	10:00	3-7	SSW, SW, Variable
	11:00	10	SW
	12:00	5	Variable
	13:00	8	SW
	14:00	9-10	SW
	15:00	9	WSW
	16:00	9	SSW
	17:00	3-8	SW
	18:00	6	SW
	19:00	6-7	SW
	20:00	5-9	SW, WSW
	21:00	6	SW
	22:00	8	WSW
	23:00	Calm	--

## Wind Data for Santa Monica Area (Cont'd)

Date	Time	Wind Data	
		Speed, mph	Direction
Sat-29-Jan	12:00	7	Variable
	13:00	10	W
	14:00	12	W
	15:00	15	NNW
	16:00	16	N
	17:00	15	NNW
	18:00	14	NNW
	19:00	14	NNW
	20:00	16	N
	21:00	12	NNW
	22:00	10	NNW
	23:00	7	Variable
Sun-30-Jan	0:00	7	NNE
	1:00	Calm	--
	2:00	Calm	--
	3:00	Calm	--
	4:00	3	NE
	5:00	3	N
	6:00	6	E
	7:00	Calm	--
	8:00	Calm	--
	9:00	5.0	E
	10:00	Calm	--
	11:00	9	SSW
	12:00	8	SSW
	13:00	7	Variable
	14:00	9	SSW
	15:00	6	Variable
	16:00	3	E
	17:00	3	SSW
	18:00	3	NW
	19:00	7	WNW
	20:00	Calm	--
	21:00	7	NE
	22:00	3	NE
	23:00	5	NE
Mon-31-Jan	0:00	6	NE
	1:00	8	NE
	2:00	5	NNW
	3:00	3	NNW
	4:00	Calm	--
	5:00	6	E
	6:00	5	E
	7:00	5	E
	8:00	5	Variable
	9:00	5	Variable
	10:00	6	SSW
	11:00	9	SSW
	12:00	9	SW
	13:00	10	SSW
	14:00	8	SSW
	15:00	8	SSW
	16:00	5	Variable
	17:00	Calm	--
	18:00	3	N
	19:00	Calm	--
	20:00	3	NE
	21:00	5	ESE
	22:00	3	N
	23:00	5	N



## Wind Data for Santa Monica Area (Cont'd)

Date	Time	Wind Data	
		Speed, mph	Direction
Sat-29-Jan	12:00	7	Variable
	13:00	10	W
	14:00	12	W
	15:00	15	NNW
	16:00	16	N
	17:00	15	NNW
	18:00	14	NNW
	19:00	14	NNW
	20:00	16	N
	21:00	12	NNW
	22:00	10	NNW
	23:00	7	Variable
Sun-30-Jan	0:00	7	NNE
	1:00	Calm	--
	2:00	Calm	--
	3:00	Calm	--
	4:00	3	NE
	5:00	3	N
	6:00	6	E
	7:00	Calm	--
	8:00	Calm	--
	9:00	5.0	E
	10:00	Calm	--
	11:00	9	SSW
	12:00	8	SSW
	13:00	7	Variable
	14:00	9	SSW
	15:00	6	Variable
	16:00	3	E
	17:00	3	SSW
	18:00	3	NW
	19:00	7	WNW
	20:00	Calm	--
	21:00	7	NE
	22:00	3	NE
	23:00	5	NE
Mon-31-Jan	0:00	6	NE
	1:00	8	NE
	2:00	5	NNW
	3:00	3	NNW
	4:00	Calm	--
	5:00	8	E
	6:00	5	E
	7:00	5	E
	8:00	5	Variable
	9:00	5	Variable
	10:00	6	SSW
	11:00	9	SSW
	12:00	9	SW
	13:00	10	SSW
	14:00	8	SSW
	15:00	8	SSW
	16:00	5	Variable
	17:00	Calm	--
	18:00	3	N
	19:00	Calm	--
	20:00	3	NE
	21:00	5	ESE
	22:00	3	N
	23:00	5	N



## Wind Data for Santa Monica Area (Cont'd)

Date	Time	Wind Data	
		Speed, mph	Direction
Wed-02-Mar	0:00	3	NNW
	1:00	Calm	--
	2:00	Calm	--
	3:00	3	NW
	4:00	3	N
	5:00	3	NW
	6:00	Calm	--
	7:00	3	NE
	8:00	3	Variable, E
	9:00	6	SSE
	10:00	10	SSW
	11:00	9	SW
	12:00	9	SSW
	13:00	9	SW
	14:00	8-9	WSW, SW
	15:00	6	Variable
	16:00	5-7	SW, Variable
	17:00	6, Calm	SSW
	18:00	3	S, SSE
	19:00	3, Calm	SSE, E
	20:00	Calm, 5-6	SE, SSE
	21:00	5-8	SSE, SE
	22:00	3-6	SE, ESE, E
	23:00	Calm	--
Thu-03-Mar	0:00	5, Calm	WSW
	1:00	Calm	--
	2:00	Calm	--
	3:00	Calm	--
	4:00	Calm	--
	5:00	Calm	--
	6:00	Calm, 3	NNE
	7:00	Calm	--
	8:00	3	Variable
	9:00	3-6	ESE, Variable, SE
	10:00	9	SSW
	11:00	9	SSW
	12:00	10	SSW
	13:00	8	WSW
	14:00	7	WSW
	15:00	8	SW
	16:00	8	WSW
	17:00	8	SW
	18:00	8	WSW
	19:00	3	Variable
	20:00	6	SW
	21:00	3	SW
	22:00	3-5	SSW, S
	23:00	Calm	--
Fri-04-Mar	0:00	3	S
	1:00	5-8	SE
	2:00	6, Calm	SE
	3:00	Calm, 3-6	Variable, ESE, S
	4:00	5-7, Calm	SSE, S
	5:00	8-9	SSE, SE
	6:00	5-8	SE, ESE
	7:00	5-7	ESE, E
	8:00	3-7	SW, ESE, Variable
	9:00	7	S
	10:00	5	Variable
	11:00	7-9	SSW, Variable, S
	12:00	8	SW

**APPENDIX D**  
**Noise Measurement Data**  
**and Field Measurement Forms**

## Hourly Noise Levels, Leq(h)

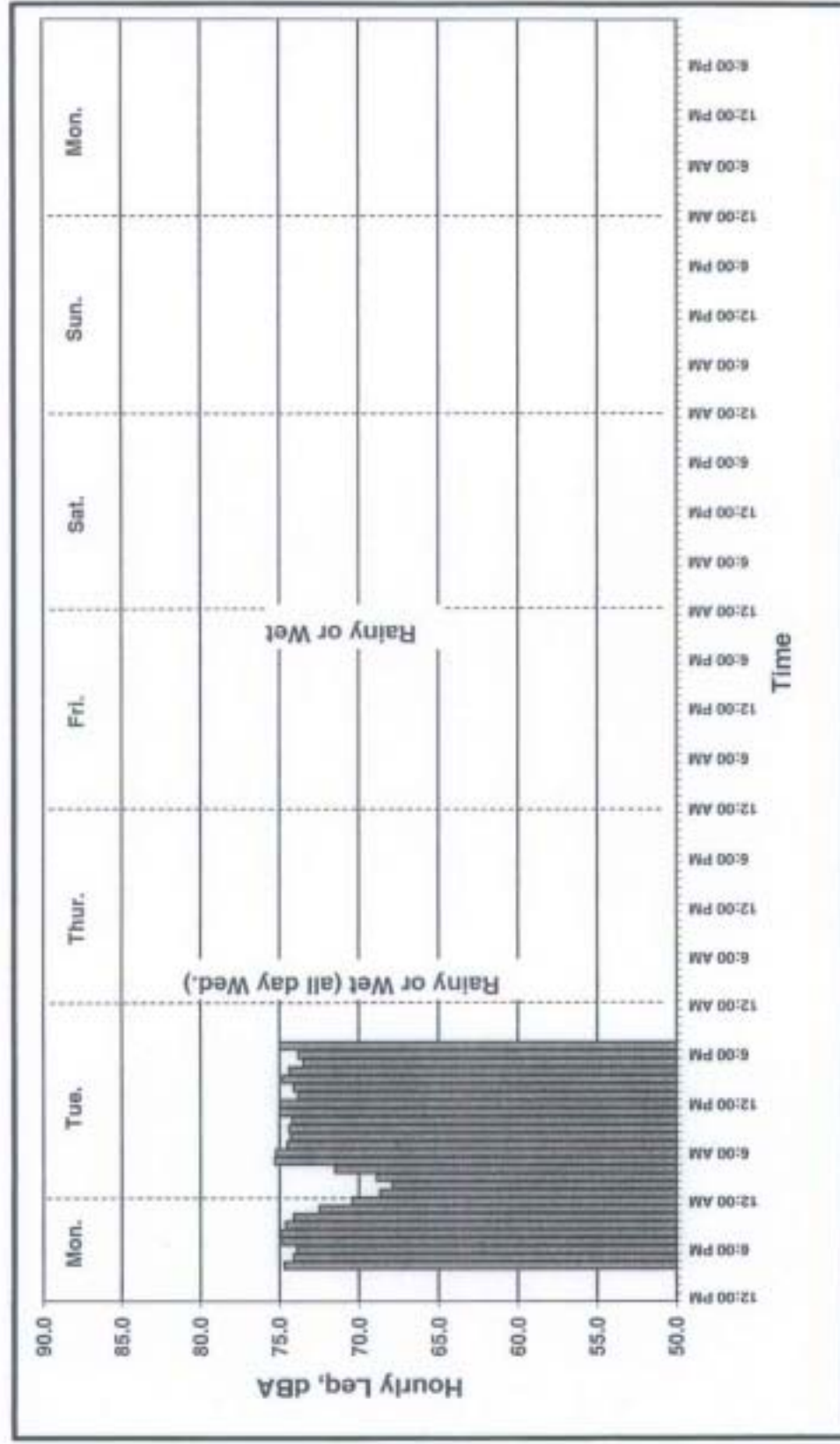
**75.3 dBA** = Highest Measured Level

Location: 7518 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/25/05; no data reported.

Meter experienced a battery failure.



## Hourly Noise Levels, Leq(h)

75.3 dBA = Highest Measured Level

Location: 7518 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 - 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date: Day:	1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00 am		--	70.4	--	*	--	*	*
1:00 - 2:00 am		--	68.7	--	*	--	*	*
2:00 - 3:00 am		--	67.9	--	*	--	*	*
3:00 - 4:00 am		--	68.9	--	*	--	*	*
4:00 - 5:00 am		--	71.5	--	*	--	*	*
5:00 - 6:00 am		--	75.3	--	*	--	*	*
6:00 - 7:00 am		--	75.2	--	*	--	*	*
7:00 - 8:00 am		--	74.5	--	*	--	*	*
8:00 - 9:00 am		--	74.3	--	--	--	*	*
9:00 - 10:00 am		--	74.4	*	--	--	*	*
10:00 - 11:00 am		--	74.2	*	--	--	*	*
11:00 - 12:00 am		--	75.0	*	--	--	*	*
12:00 - 1:00 pm		--	75.0	*	--	*	*	*
1:00 - 2:00 pm		--	73.8	*	--	*	*	*
2:00 - 3:00 pm		--	74.1	*	--	*	*	*
3:00 - 4:00 pm		--	74.8	*	--	*	*	*
4:00 - 5:00 pm		74.7	74.4	*	--	*	*	*
5:00 - 6:00 pm		74.1	73.5	*	--	*	*	*
6:00 - 7:00 pm		73.9	73.8	*	--	*	*	*
7:00 - 8:00 pm		74.8	75.0	*	--	*	*	*
8:00 - 9:00 pm		74.9	--	*	--	*	*	*
9:00 - 10:00 pm		74.6	--	*	--	*	*	*
10:00 - 11:00 pm		74.1	--	*	--	*	*	*
11:00 - 12:00 pm		72.5	--	*	--	*	*	*

Nighttime period

-- = No measurement, or rainy or wet period

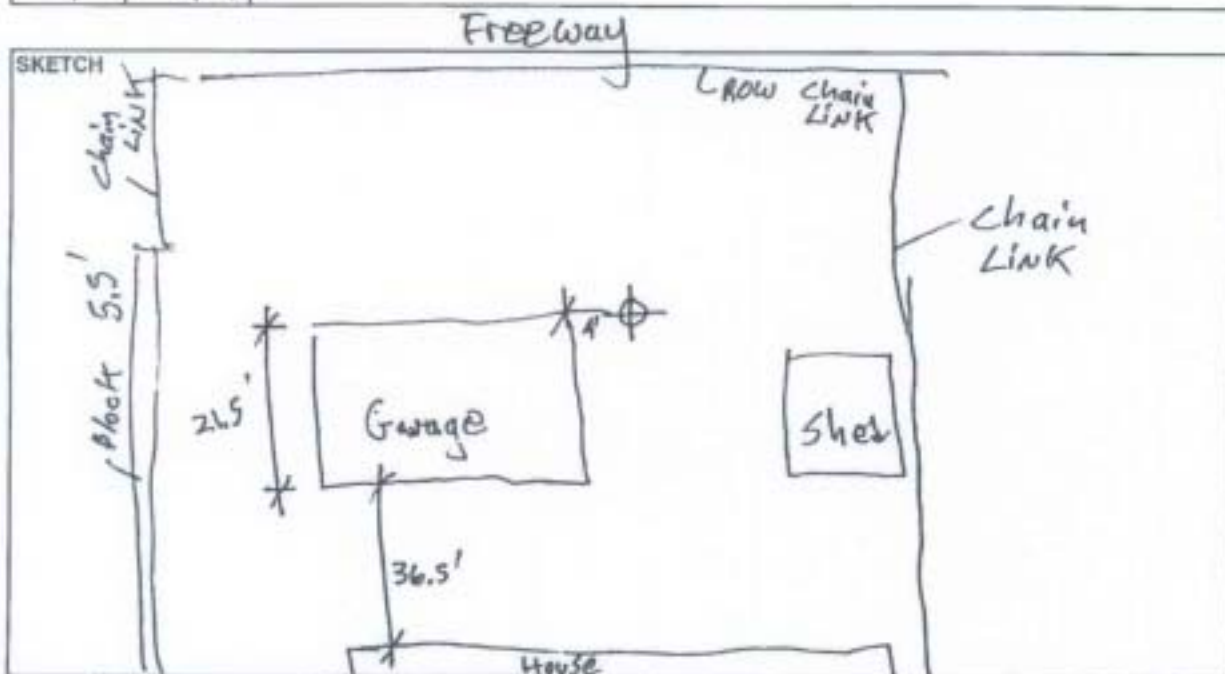
\* = Meter experienced a battery failure

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: Bay and Matt	DATE: 01-24-05
LOCATION: 7518 Midfield Avenue,			SITE NO.: 7518
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> 906C	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: 64.8 °F WIND SPEED: 2 MPH TOWARD (DIR): Freeway R. HUMIDITY: 65 %  CAMERA _____ PHOTO NOS. _____
SERIAL #: 1502	SERIAL #: 2026931	SERIAL #: 0231	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> BK 4155	Calibration, dB: Input Reading Before 93.0 / 94 After 93.0 / 93.0	TIME: 4:05 10:16:34	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: We used Parsons Cable Tues and Thursday - Bay was on - meter ran out of power
DATE	TIME	
01-24-05	4:08	
STOP		
DATE	TIME	
?	?	



PARSONS



## Hourly Noise Levels, Leq(h)

71.7 dBA

= Highest Measured Level

**Location:** 7522 Midfield Avenue, Inglewood, CA

**Position:** Rear Yard

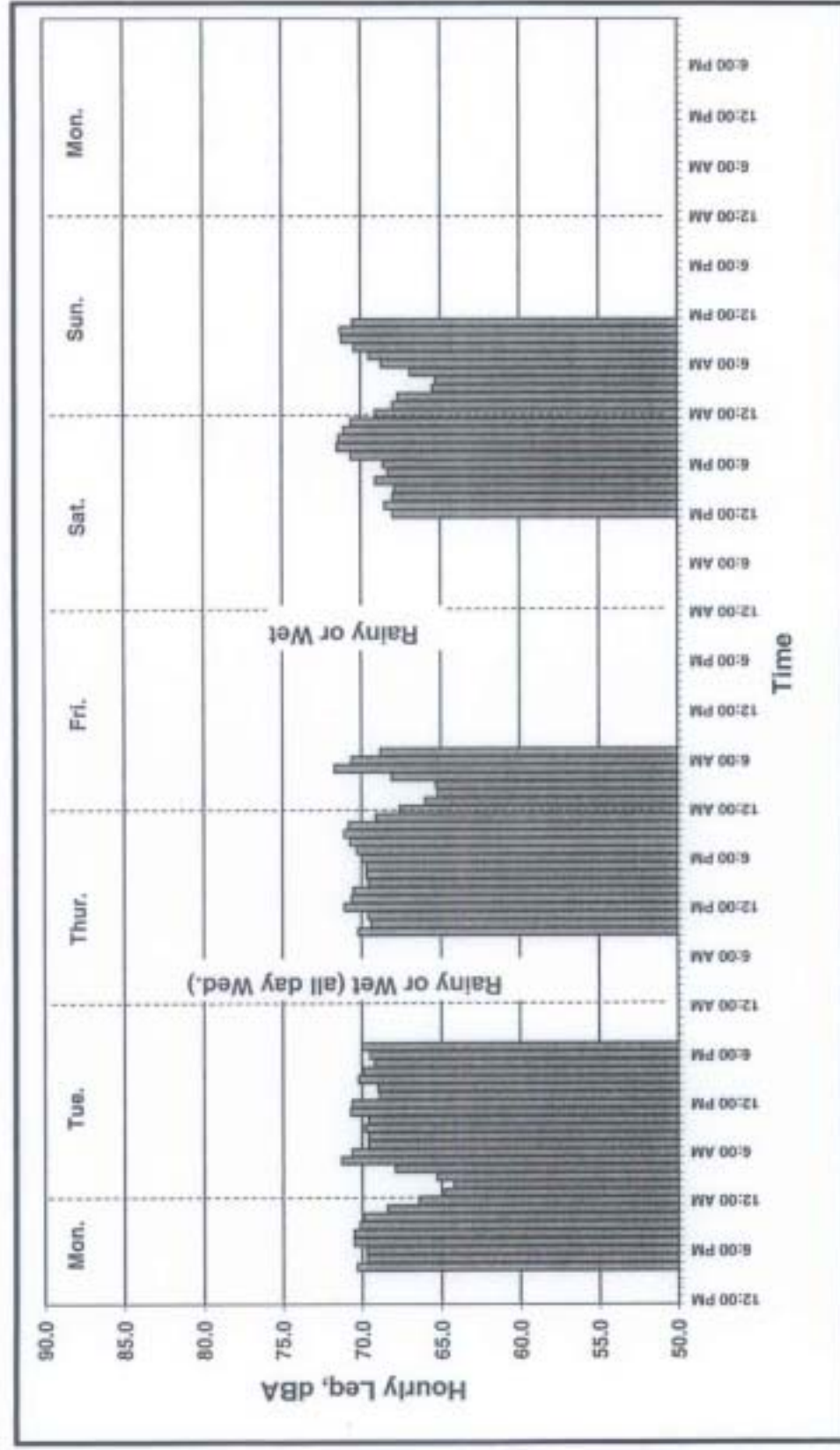
**Sources:** I-405 Highway Traffic

**Date:** 1/24 - 1/31

**Notes:** See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Automatic run timer stopped meter on Sunday at 12 noon.



## Hourly Noise Levels, Leq(h)

71.7 dBA

= Highest Measured Level

Location: 7522 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:		Mon	Tue	Thu	Fri	Sat	Sun	Mon
		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	--	66.4	--	67.6	--	69.1	*
1:00 - 2:00	am	--	--	64.8	--	66.0	--	68.0	*
2:00 - 3:00	am	--	--	64.2	--	65.2	--	67.7	*
3:00 - 4:00	am	--	--	65.3	--	65.3	--	65.5	*
4:00 - 5:00	am	--	--	67.9	--	68.1	--	65.3	*
5:00 - 6:00	am	--	--	71.3	--	71.7	--	66.9	*
6:00 - 7:00	am	--	--	70.6	--	70.6	--	68.7	*
7:00 - 8:00	am	--	--	69.8	--	68.8	--	69.5	*
8:00 - 9:00	am	--	--	69.6	--	--	--	70.4	*
9:00 - 10:00	am	--	--	69.8	70.2	--	--	71.2	*
10:00 - 11:00	am	--	--	69.6	69.4	--	--	71.3	*
11:00 - 12:00	am	--	--	70.7	69.6	--	--	70.5	*
12:00 - 1:00	pm	--	--	70.6	71.1	--	68.0	*	*
1:00 - 2:00	pm	--	--	68.9	70.8	--	68.5	*	*
2:00 - 3:00	pm	--	--	69.0	70.5	--	68.0	*	*
3:00 - 4:00	pm	--	--	70.2	69.6	--	67.9	*	*
4:00 - 5:00	pm	70.3	--	69.9	69.7	--	69.1	*	*
5:00 - 6:00	pm	69.7	--	69.2	69.7	--	68.3	*	*
6:00 - 7:00	pm	69.7	--	69.5	70.0	--	68.6	*	*
7:00 - 8:00	pm	70.5	--	70.0	70.3	--	70.6	*	*
8:00 - 9:00	pm	70.5	--	--	70.7	--	71.5	*	*
9:00 - 10:00	pm	70.1	--	--	71.1	--	71.4	*	--
10:00 - 11:00	pm	69.9	--	--	70.8	--	71.1	*	--
11:00 - 12:00	pm	68.4	--	--	69.1	--	70.6	*	--

= Nighttime period

-- = No measurement, or rainy or wet period

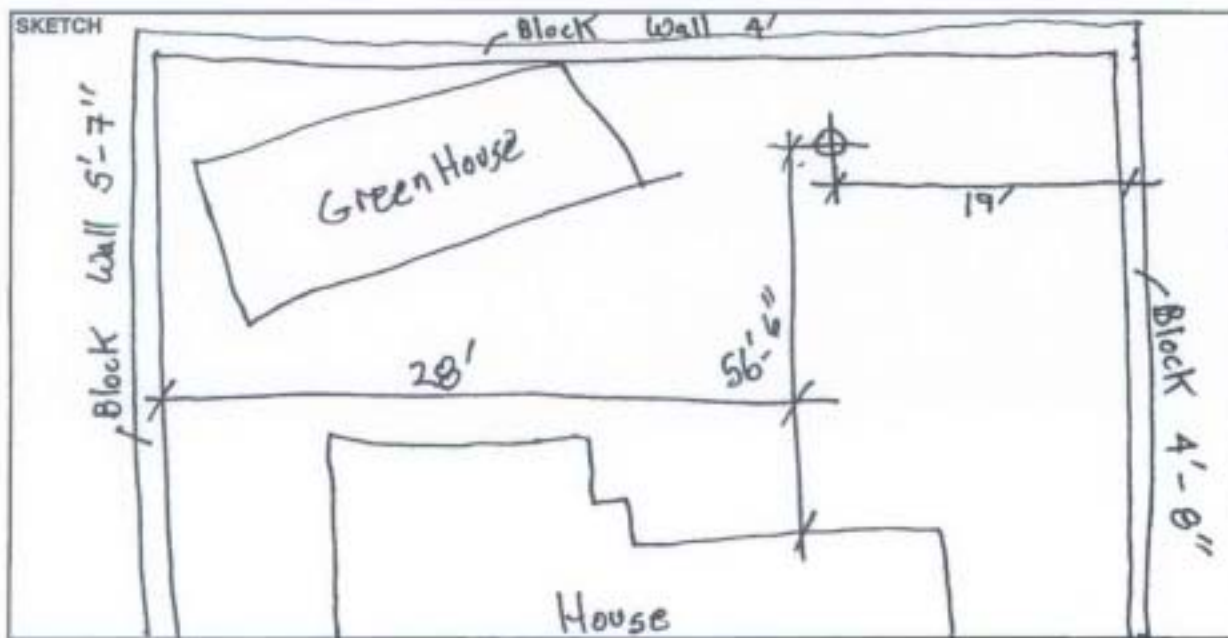
\* = Automatic run timer stopped meter on Sunday at 12 noon.

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Ray and Matt</u>	DATE: 01-24-05
LOCATION: 7522 Midfield Avenue,			SITE NO.: 7522
SOUND LEVEL METER: <input type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input checked="" type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> <u>NL-21</u>	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>72</u> °F WIND SPEED: <u>0</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>59.6</u> %  CAMERA _____ PHOTO NOS. _____
SERIAL #: <u>030</u>	SERIAL #:	SERIAL #: <u>00132</u>	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> <u>BK 4155</u>	Calibration, dB: Input Reading Before <u>93.8</u> / <u>93.8</u> After <u>93.8</u> / <u>93.7</u>	TIME: <u>11:16</u> <u>9:56</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <u>Home owner was not home for pick-up</u>
DATE	TIME	
01-24-05	3:00	
STOP		
DATE	TIME	
1-30-05	12:00	→ Timer turned off





## Hourly Noise Levels, Leq(h)

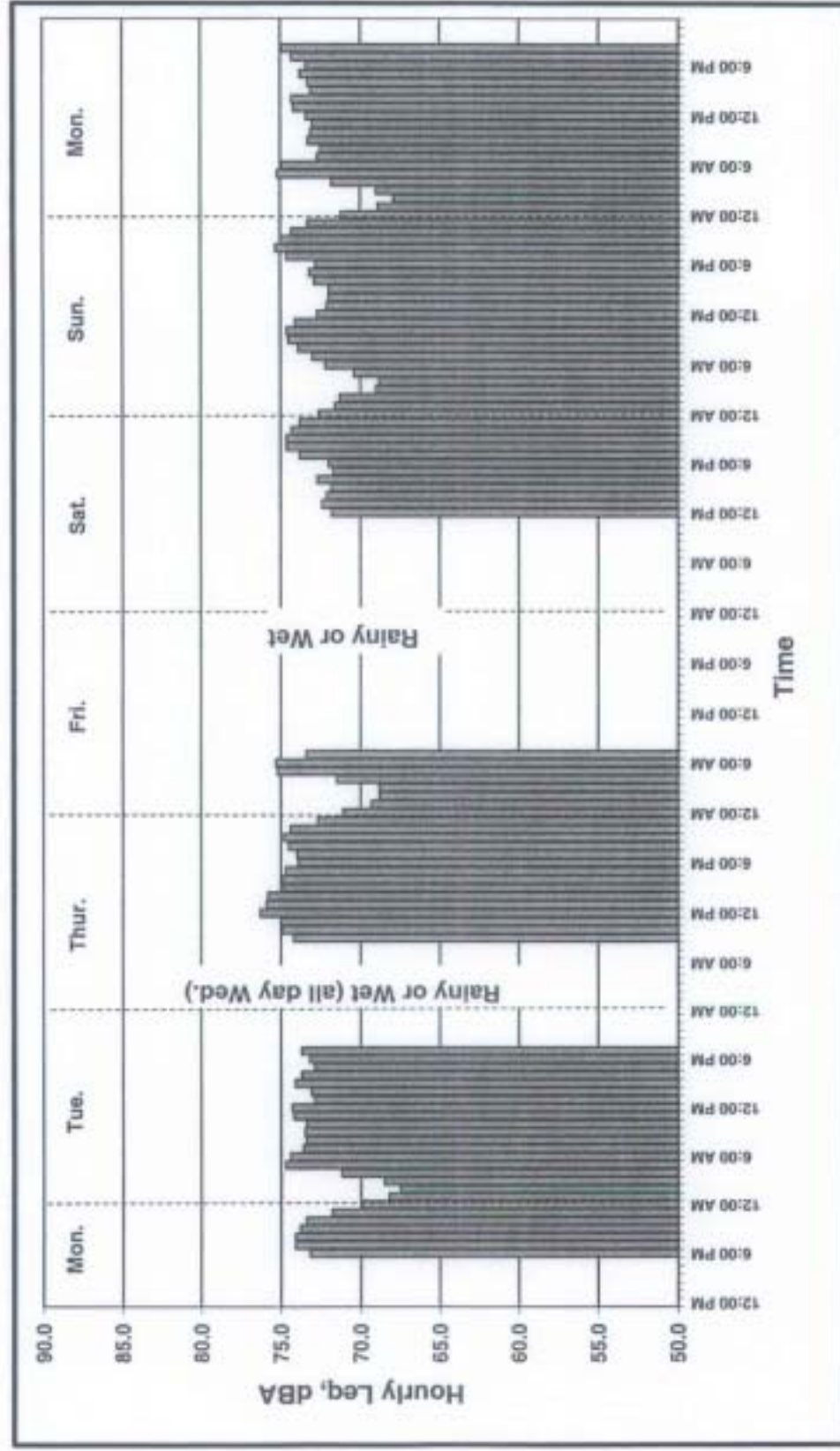
76.3 dBA

= Highest Measured Level

Location: 7528 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 - 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.



## Hourly Noise Levels, Leq(h)

Location: 7525 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

76.3 dBA

 = Highest Measured Level

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:		Mon	Tue	Thu	Fri	Sat	Sun	Mon
			Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	--	69.9	--	71.1	--	72.6	71.2
1:00 - 2:00	am	--	--	68.2	--	69.3	--	71.6	68.9
2:00 - 3:00	am	--	--	67.5	--	68.8	--	71.3	67.9
3:00 - 4:00	am	--	--	66.5	--	68.8	--	69.0	69.0
4:00 - 5:00	am	--	--	71.2	--	71.5	--	68.8	71.8
5:00 - 6:00	am	--	--	74.7	--	75.2	--	70.4	75.2
6:00 - 7:00	am	--	--	74.4	--	75.3	--	72.2	74.9
7:00 - 8:00	am	--	--	73.6	--	73.4	--	73.0	72.7
8:00 - 9:00	am	--	--	73.4	--	--	--	73.9	72.5
9:00 - 10:00	am	--	--	73.5	74.2	--	--	74.5	73.3
10:00 - 11:00	am	--	--	73.4	74.9	--	--	74.6	73.1
11:00 - 12:00	am	--	--	74.2	75.0	--	--	74.1	73.0
12:00 - 1:00	pm	--	--	74.3	76.3	--	71.8	72.7	73.4
1:00 - 2:00	pm	--	--	72.9	75.9	--	72.4	72.1	74.2
2:00 - 3:00	pm	--	--	73.1	75.8	--	72.1	72.0	74.3
3:00 - 4:00	pm	--	--	74.1	74.8	--	71.8	72.0	73.1
4:00 - 5:00	pm	--	--	73.7	74.9	--	72.7	72.9	73.3
5:00 - 6:00	pm	--	--	72.9	74.7	--	71.7	73.2	73.8
6:00 - 7:00	pm	73.2	--	73.2	73.9	--	72.0	72.8	73.4
7:00 - 8:00	pm	74.1	--	73.7	74.0	--	73.8	74.6	74.3
8:00 - 9:00	pm	74.1	--	--	74.5	--	74.6	75.3	74.9
9:00 - 10:00	pm	73.8	--	--	74.8	--	74.6	75.0	--
10:00 - 11:00	pm	73.4	--	--	74.4	--	74.3	74.3	--
11:00 - 12:00	pm	71.8	--	--	72.7	--	73.8	73.3	--

--

 = Nighttime period

-- = No measurement, or rainy or wet period

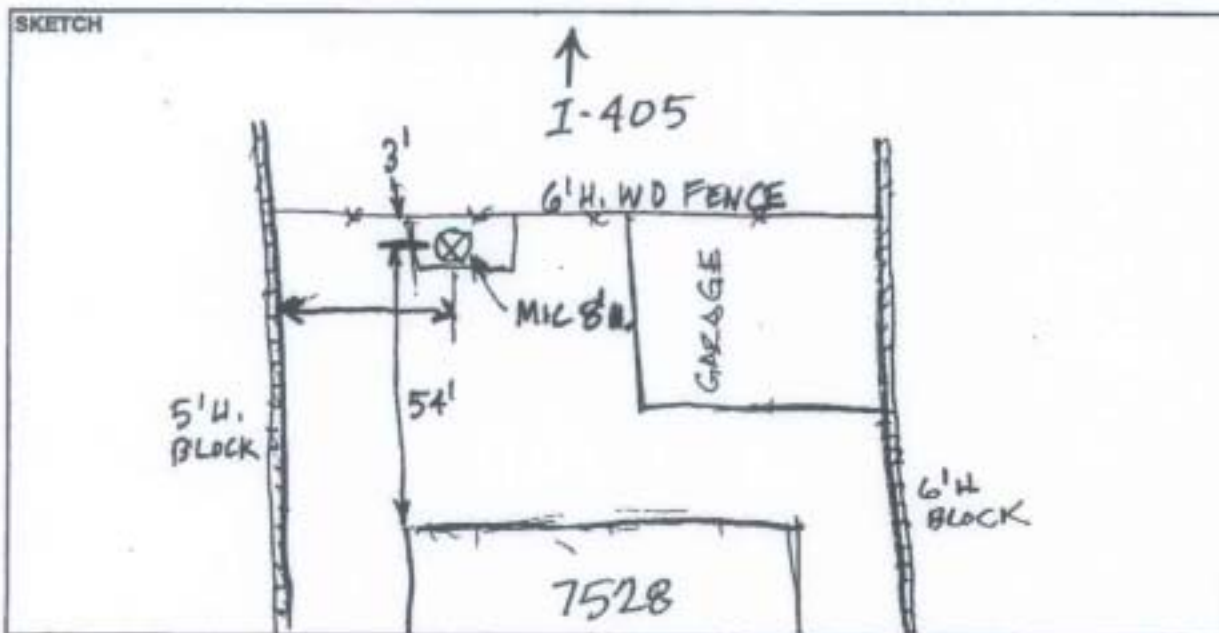
**Bold** exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>E.T.</u>	DATE: 01-24-05
LOCATION: 7528 Midfield Avenue,			SITE NO.: 7528
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN <u>BK 4129</u>	PRE AMP: <input type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> 900C	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>63°</u> °F WIND SPEED: <u>CALM</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>73</u> %  CAMERA <u>ET</u> PHOTO NOs. <u>1, 13, 14, 15</u>
SERIAL #: <u>120</u>	SERIAL #: <u>2021350</u>	SERIAL #: <u>0276</u>	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> 4155	Calibration, dB: Input Reading Before <u>114.0</u> / <u>114.3</u> After <u>114.0</u> / <u>114.2</u>	TIME: <u>5:30P</u> <u>6:40P</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: 20 MIN MEAS W/VIDEO 5:30-5:50 1/24/05  LEQ LMAX L1 L10 L25 L50 L90 L99 LMIN 73.0 81.6 75.7 74.0 73.6 72.9 71.8 70.7 70.3 covered microphone: 125 1945 uncovered microphone: link (message)
DATE	TIME	
01-24-05	18:00	
STOP		
DATE	TIME	



PARSONS

## Hourly Noise Levels, Leq(h)

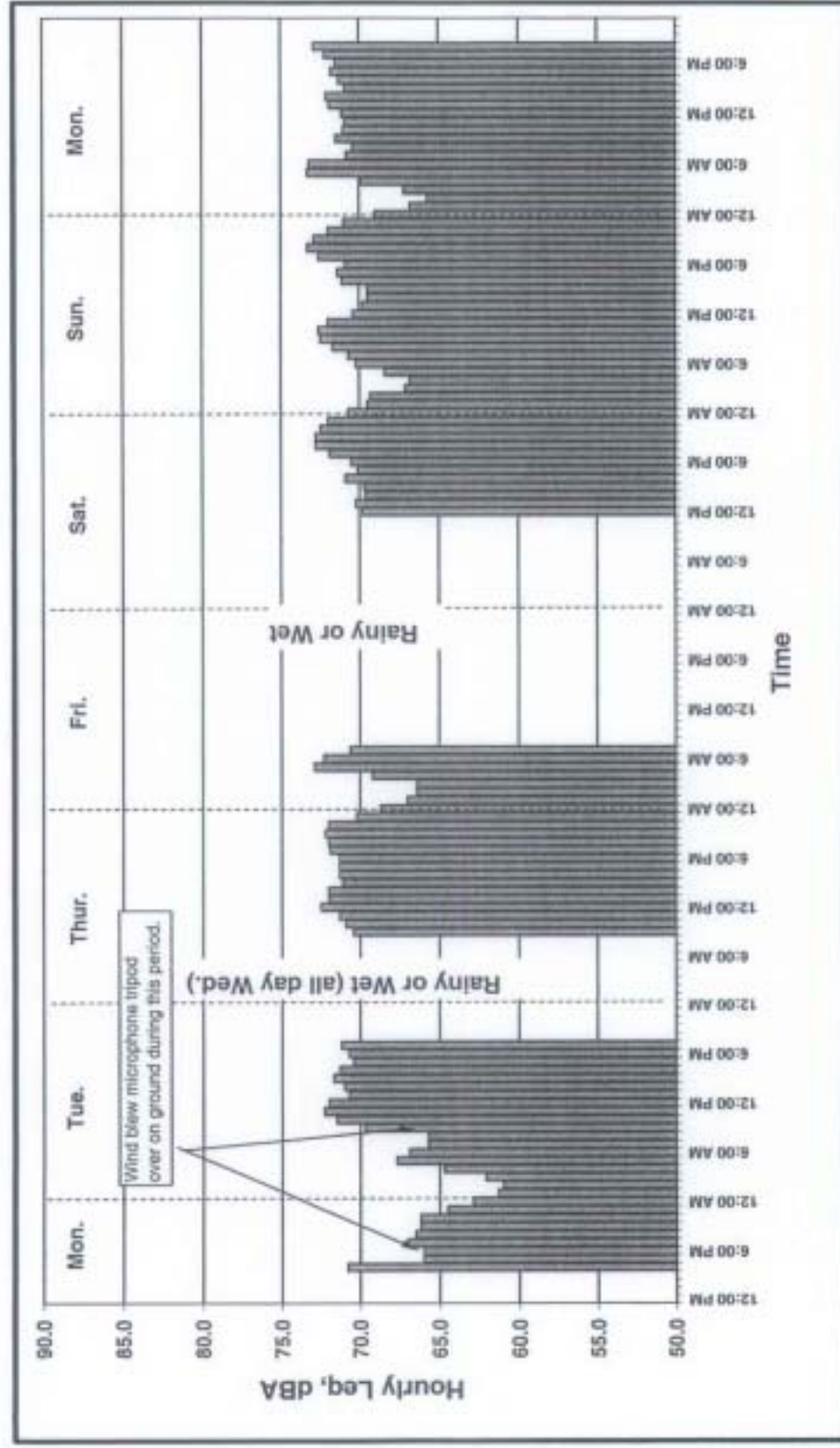
73.3 dBA

= Highest Measured Level

**Location:** 7538 Midfield Avenue, Inglewood, CA  
**Position:** Rear Yard  
**Sources:** I-405 Highway Traffic  
**Date:** 1/24 – 1/31

**Notes:** See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.



## Hourly Noise Levels, Leq(h)

73.3 dBA = Highest Measured Level

Location: 7538 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 - 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/25/05; no data reported.

TIME	Date:		1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
	Day:		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	--	62.9*	--	68.7	--	70.7	69.0
1:00 - 2:00	am	--	--	61.3*	--	67.0	--	69.5	66.8
2:00 - 3:00	am	--	--	61.0*	--	66.4	--	69.3	65.7
3:00 - 4:00	am	--	--	62.1*	--	66.4	--	67.1	67.2
4:00 - 5:00	am	--	--	64.7*	--	69.2	--	66.8	69.9
5:00 - 6:00	am	--	--	67.7*	--	72.9	--	68.4	73.3
6:00 - 7:00	am	--	--	66.9*	--	72.3	--	70.2	73.2
7:00 - 8:00	am	--	--	65.7*	--	70.6	--	70.7	70.8
8:00 - 9:00	am	--	--	6.57*	--	--	--	71.7	70.4
9:00 - 10:00	am	--	--	69.7	70.4	--	--	72.5	71.5
10:00 - 11:00	am	--	--	71.5	70.9	--	--	72.6	71.0
11:00 - 12:00	am	--	--	72.3	71.3	--	--	72.0	70.9
12:00 - 1:00	pm	--	--	72.0	72.5	--	69.8	70.4	71.1
1:00 - 2:00	pm	--	--	70.7	72.0	--	70.2	69.8	71.9
2:00 - 3:00	pm	--	--	71.0	72.0	--	69.6	69.5	72.1
3:00 - 4:00	pm	--	--	71.7	71.1	--	69.7	69.5	70.9
4:00 - 5:00	pm	70.8	--	71.3	71.3	--	70.9	71.1	71.3
5:00 - 6:00	pm	66.0*	--	70.4	71.3	--	70.1	71.4	71.8
6:00 - 7:00	pm	66.0*	--	70.7	71.3	--	70.5	70.9	71.5
7:00 - 8:00	pm	67.0*	--	71.2	71.9	--	71.9	72.6	72.2
8:00 - 9:00	pm	66.5*	--	--	72.0	--	72.8	73.3	72.9
9:00 - 10:00	pm	66.2*	--	72.2	72.2	--	72.8	72.9	--
10:00 - 11:00	pm	66.2*	--	72.0	72.0	--	72.5	72.0	--
11:00 - 12:00	pm	64.5*	--	70.2	70.2	--	72.0	71.0	--

Nighttime period

-- = No measurement, or rainy or wet period

\* = Wind blew microphone tripod over on ground during this period

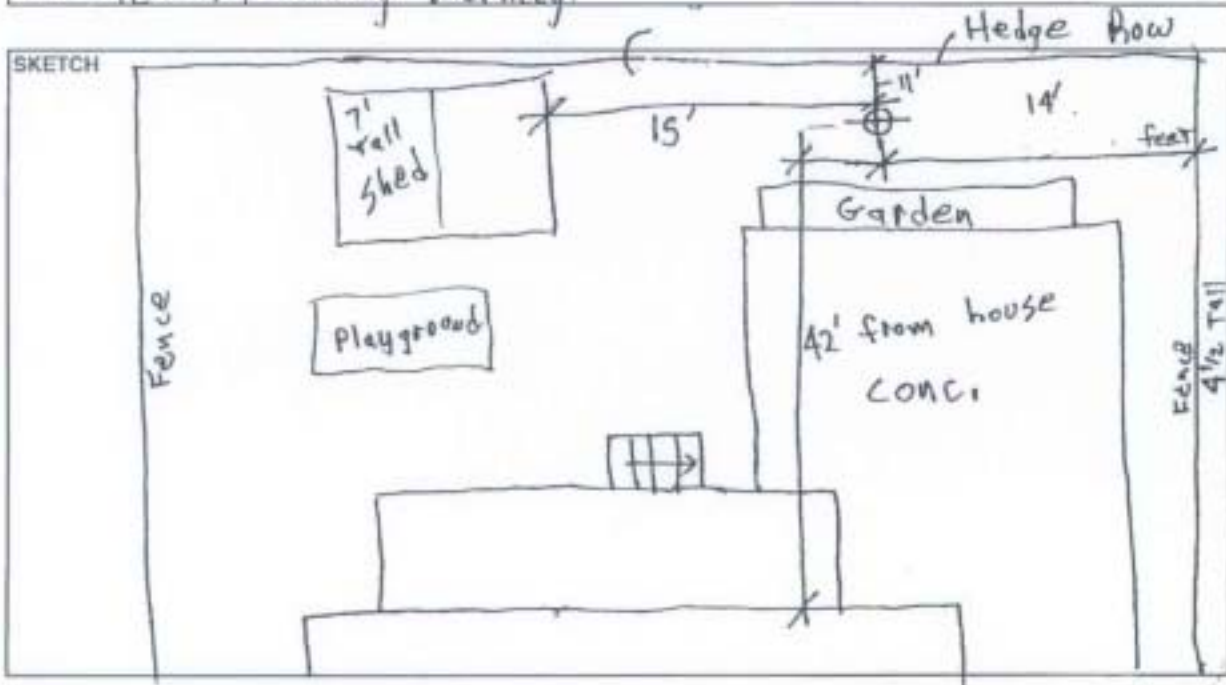
Bold exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Ray and Matt</u>	DATE: 01-24-05
LOCATION: 7538 Midfield Avenue,			SITE NO.: 7538
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> LD-900C	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>66.1</u> °F WIND SPEED: <u>0</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>100</u> %  CAMERA <u>Acamtech Kodak</u> PHOTO NOS. _____
SERIAL #: <u>162</u>	SERIAL #: <u>B4K 4176</u> <u>206932</u>	SERIAL #: <u>3813</u>	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> BK 4155	Calibration, dB: Input Reading Before <u>93.8</u> / <u>93.9</u> After <u>93.8</u> / <u>93.9</u>	TIME: <u>9:35</u> <u>8:36</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <u>Homeowners says microphone was on the ground on the morning of the 25th. Some came to put a bag on it on Thursday, bag blew off by Friday morning.</u>
DATE	TIME	
01-24-05	9:40	
STOP		
DATE	TIME	
1-25-05	8:37	



PARSONS



## Hourly Noise Levels, Leq(h)

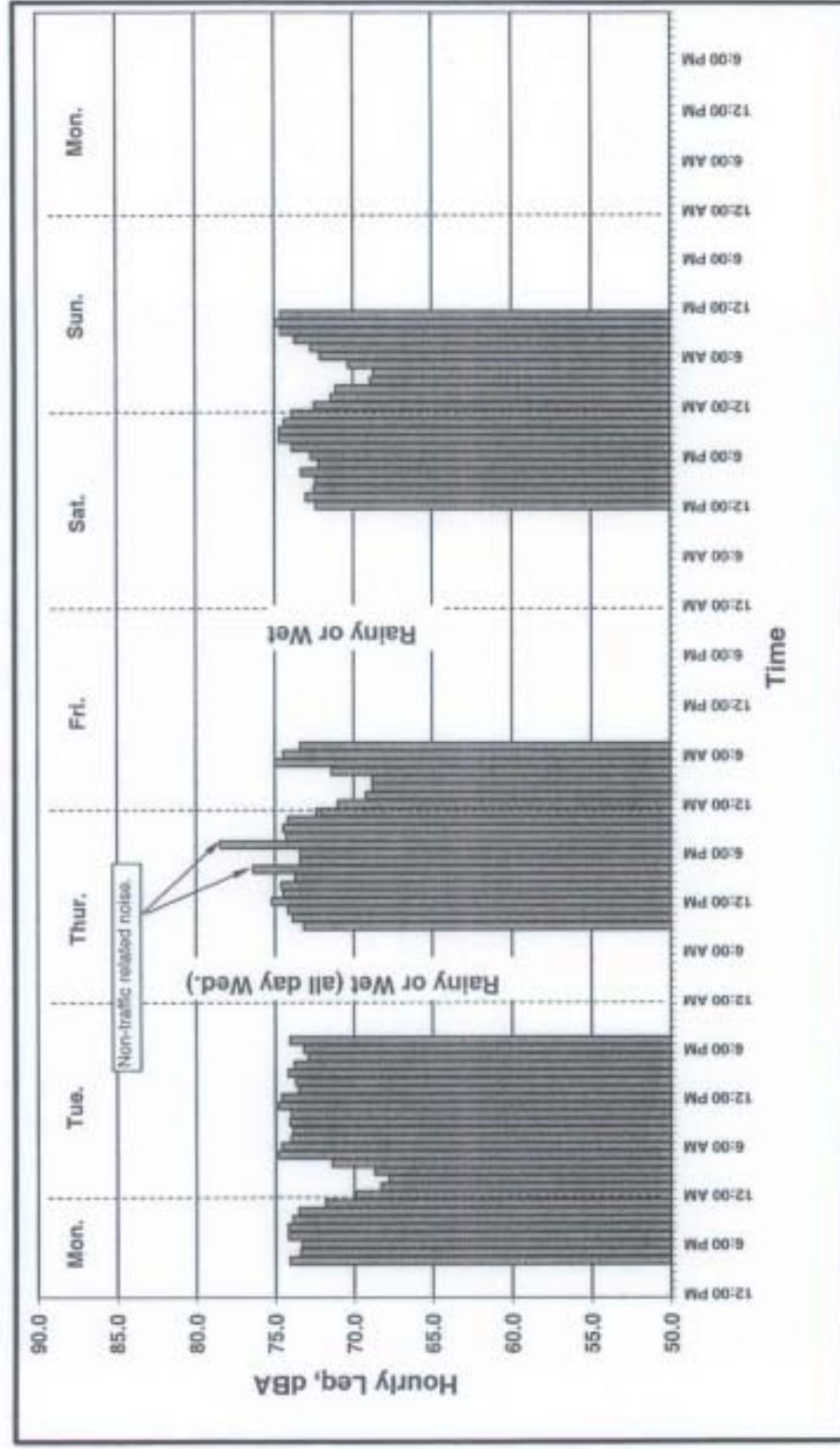
75.2 dBA

= Highest Measured Level

Location: 7542 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

### Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/25/05; no data reported.  
 Automatic run timer stopped meter on Sunday at 12 noon.



## Hourly Noise Levels, Leq(h)

75.2 dBA = Highest Measured Level

Location: 7542 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 - 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/25/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:		Mon	Tue	Thu	Fri	Sat	Sun	Mon
		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	--	69.9	--	71.0	--	72.5	*
1:00 - 2:00	am	--	--	68.3	--	69.2	--	71.4	*
2:00 - 3:00	am	--	--	67.8	--	68.8	--	71.1	*
3:00 - 4:00	am	--	--	68.7	--	68.8	--	68.9	*
4:00 - 5:00	am	--	--	71.4	--	71.4	--	68.7	*
5:00 - 6:00	am	--	--	74.8	--	75.0	--	70.3	*
6:00 - 7:00	am	--	--	74.6	--	74.5	--	72.1	*
7:00 - 8:00	am	--	--	74.0	--	73.4	--	72.7	*
8:00 - 9:00	am	--	--	73.9	--	--	--	73.7	*
9:00 - 10:00	am	--	--	74.1	73.2	--	--	74.6	*
10:00 - 11:00	am	--	--	74.0	73.9	--	--	75.0	*
11:00 - 12:00	am	--	--	74.8	74.2	--	--	74.6	*
12:00 - 1:00	pm	--	--	74.6	75.2	--	72.4	*	*
1:00 - 2:00	pm	--	--	73.5	74.5	--	73.0	*	*
2:00 - 3:00	pm	--	--	73.7	74.6	--	72.5	*	*
3:00 - 4:00	pm	--	--	74.2	73.7	--	72.4	*	*
4:00 - 5:00	pm	74.1	74.1	73.8	76.4**	--	73.3	*	*
5:00 - 6:00	pm	73.4	73.4	72.9	73.4	--	72.2	*	*
6:00 - 7:00	pm	73.3	73.3	73.2	73.4	--	72.7	*	*
7:00 - 8:00	pm	74.2	74.2	74.1	78.5**	--	73.9	*	*
8:00 - 9:00	pm	74.2	74.2	--	74.3	--	74.7	*	*
9:00 - 10:00	pm	73.9	73.9	--	74.5	--	74.7	*	--
10:00 - 11:00	pm	73.5	73.5	--	74.2	--	74.4	*	--
11:00 - 12:00	pm	71.8	71.8	--	72.4	--	73.9	*	--

-- = Nighttime period

\*\* = Non-traffic related noise

-- = No measurement, or rainy or wet period

\* = Automatic run timer stopped meter on Sunday at 12 noon.

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Ray and Matt</u>	DATE: 01-24-05
LOCATION: 7542 Midfield Avenue,			SITE NO.: 7542
SOUND LEVEL METER: <input type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input checked="" type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/>	MICROPHONE: <input type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> NH-21	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input type="checkbox"/> AC
SERIAL #: <u>336</u>	SERIAL #:	SERIAL #: <u>01543</u>	(OBSERVATIONS AT START OF MEAS.)
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> BK4155	Calibration, dB: Input Reading Before <u>93.8</u> / <u>93.9</u> After <u>93.8</u> / <u>93.8</u>	TIME: <u>10:07</u> <u>4:21</u>	TEMP: <u>69</u> °F WIND SPEED: <u>1.9</u> MPH TOWARD (DIR): <u>North</u> R. HUMIDITY: <u>60</u> %
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			CAMERA _____ PHOTO NOs. _____

START		NOTES: - Home owner not home during pick-up.    → timer stopped
DATE	TIME	
01-24-05	11:00	
STOP		
DATE	TIME	
1-29	12:00	

shrubs

SKETCH

PARSONS

## Hourly Noise Levels, Leq(h)

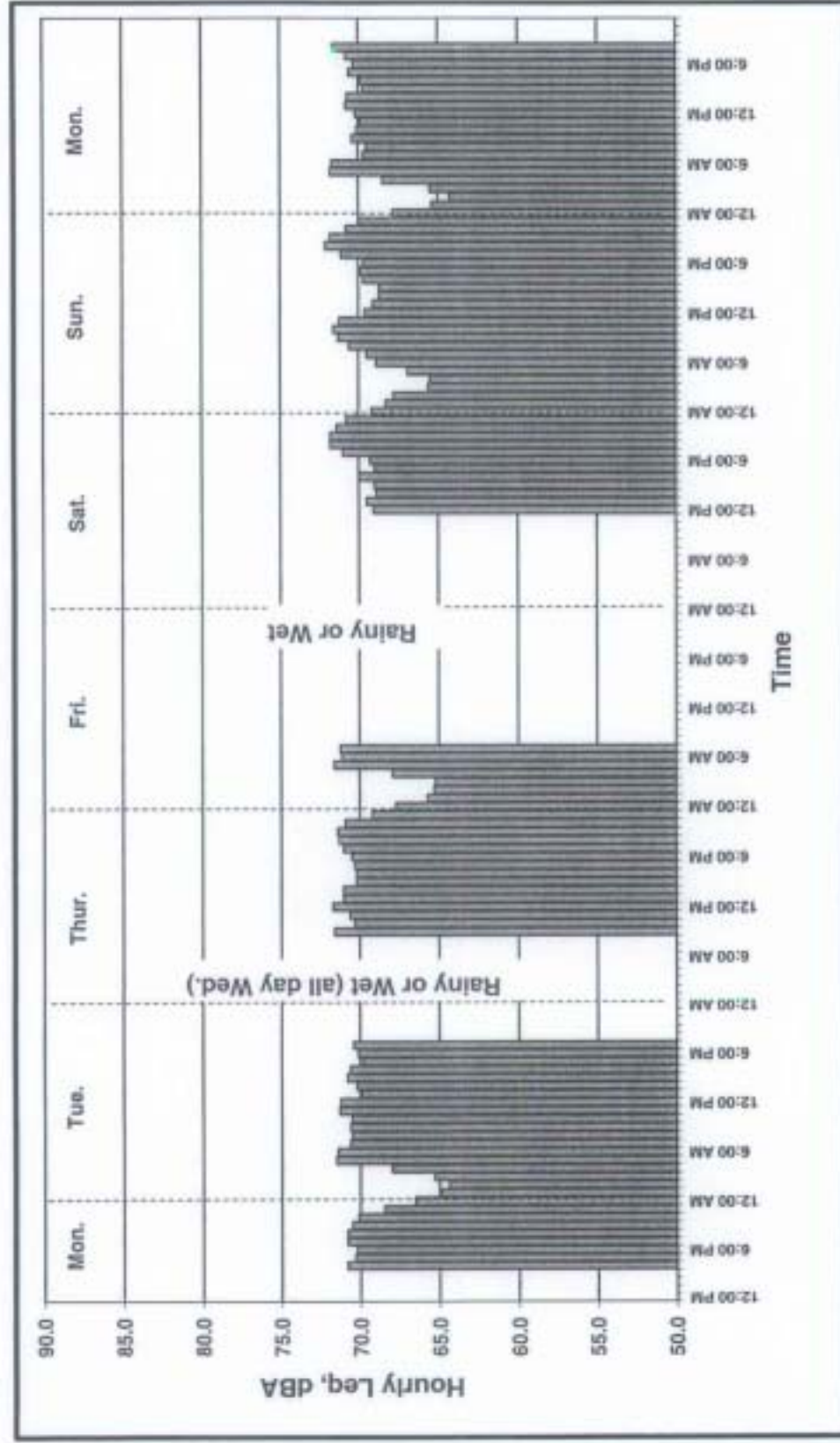
Location: 7548 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 - 1/31

72.1 dBA

= Highest Measured Level

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.





## Hourly Noise Levels, Leq(h)

72.1 dBA = Highest Measured Level

Location: 7548 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/25/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:		Mon	Tue	Thu	Fri	Sat	Sun	Mon
			Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am		--	66.5	--	67.7	--	69.2	67.8
1:00 - 2:00	am		--	64.9	--	65.7	--	68.3	65.4
2:00 - 3:00	am		--	64.4	--	65.3	--	67.8	64.3
3:00 - 4:00	am		--	65.3	--	65.2	--	65.6	65.5
4:00 - 5:00	am		--	68.0	--	67.9	--	65.5	68.5
5:00 - 6:00	am		--	71.5	--	71.6	--	68.9	71.8
6:00 - 7:00	am		--	71.4	--	71.1	--	68.9	71.7
7:00 - 8:00	am		--	70.6	--	71.2	--	69.5	69.7
8:00 - 9:00	am		--	70.5	--	--	--	70.6	69.5
9:00 - 10:00	am		--	70.6	71.6	--	--	71.3	70.4
10:00 - 11:00	am		--	70.5	70.3	--	--	71.6	70.1
11:00 - 12:00	am		--	71.3	70.6	--	--	71.2	69.9
12:00 - 1:00	pm		--	71.2	71.7	--	69.1	69.6	70.2
1:00 - 2:00	pm		--	69.9	71.0	--	69.5	69.1	70.8
2:00 - 3:00	pm		--	70.2	71.0	--	68.9	68.7	70.7
3:00 - 4:00	pm		--	70.8	70.2	--	69.0	68.7	69.7
4:00 - 5:00	pm		70.8	70.6	70.2	--	70.0	69.7	69.9
5:00 - 6:00	pm		70.3	69.8	70.3	--	69.0	69.9	70.6
6:00 - 7:00	pm		70.2	70.1	70.5	--	69.3	69.7	70.3
7:00 - 8:00	pm		70.8	70.4	71.0	--	71.0	71.1	70.8
8:00 - 9:00	pm		70.8	--	71.3	--	71.8	72.1	71.6
9:00 - 10:00	pm		70.5	--	71.4	--	71.8	71.8	--
10:00 - 11:00	pm		70.1	--	70.9	--	71.4	70.8	--
11:00 - 12:00	pm		68.5	--	69.2	--	70.8	70.0	--

Nighttime period

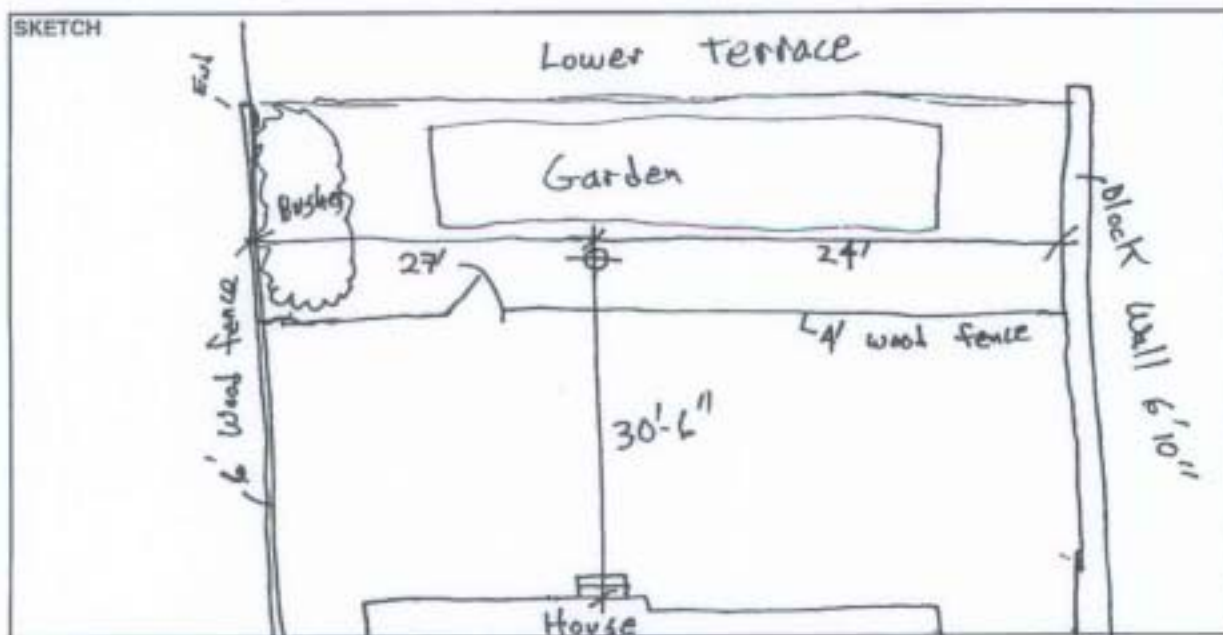
-- = No measurement, or rainy or wet period

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: Ray and Matt	DATE: 01-24-05
LOCATION: 7548 Midfield Avenue,			SITE NO.: 7548
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>67.8</u> °F WIND SPEED: <u>0</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>64.2</u> %  CAMERA _____ PHOTO NOs. _____
SERIAL #: <u>161</u>	SERIAL #: <u>BK 4189</u> <u>2281976</u>	SERIAL #: <u>4082</u>	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> BK 4155	Calibration, dB: Input Reading Before <u>93.8</u> / <u>93.9</u> After <u>93.8</u> / <u>93.8</u>	TIME: <u>10:49</u> <u>9:42</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: Wind screen was not on meter. It was inside The plastic bag that was removed  Home owner was not home during pick-up
DATE	TIME	
01-24-05	10:52	
STOP		
DATE	TIME	
2-1-05	9:41	



PARSONS

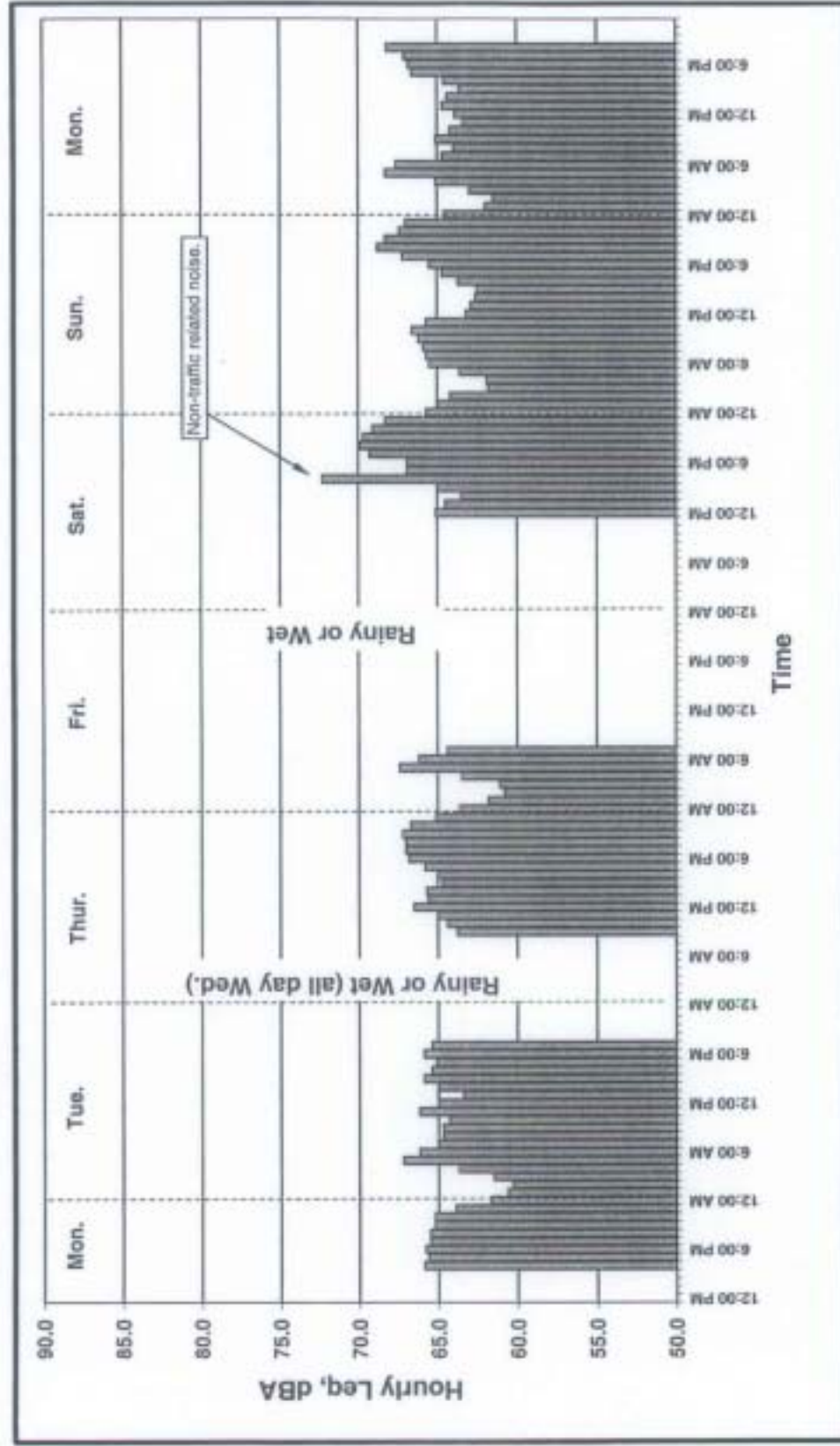
## Hourly Noise Levels, Leq(h)

Location: 7552 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

69.9 dBA

= Highest Measured Level

Notes: See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/25/05; no data reported.





## Hourly Noise Levels, Leq(h)

69.9 dBA = Highest Measured Level

Location: 7552 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 - 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date:		1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
	Day:		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am		--	61.7	--	63.8	--	65.7	64.6
1:00 - 2:00	am		--	60.6	--	61.8	--	65.0	62.0
2:00 - 3:00	am		--	60.3	--	60.8	--	64.2	61.5
3:00 - 4:00	am		--	61.5	--	61.1	--	61.8	63.0
4:00 - 5:00	am		--	63.7	--	63.5	--	61.9	65.1
5:00 - 6:00	am		--	67.2	--	67.4	--	63.6	68.3
6:00 - 7:00	am		--	68.2	--	66.2	--	65.5	67.6
7:00 - 8:00	am		--	65.0	--	64.4	--	65.7	64.7
8:00 - 9:00	am		--	64.7	--	--	--	65.9	64.0
9:00 - 10:00	am		--	64.7	63.8	--	--	66.2	65.1
10:00 - 11:00	am		--	64.3	64.4	--	--	66.6	64.2
11:00 - 12:00	am		--	66.2	65.0	--	--	65.7	63.4
12:00 - 1:00	pm		--	65.0	66.5	--	65.1	63.2	63.9
1:00 - 2:00	pm		--	63.4	65.6	--	64.5	62.9	64.7
2:00 - 3:00	pm		--	65.0	65.7	--	63.5	62.6	64.4
3:00 - 4:00	pm		--	65.9	64.7	--	65.0	62.5	63.6
4:00 - 5:00	pm		65.9	65.4	65.0	--	72.3*	63.7	64.6
5:00 - 6:00	pm		65.6	65.1	65.8	--	66.9	64.7	66.6
6:00 - 7:00	pm		65.8	65.9	66.8	--	66.9	65.5	66.8
7:00 - 8:00	pm		65.5	65.4	67.0	--	69.3	67.2	67.1
8:00 - 9:00	pm		65.5	--	67.0	--	69.9	68.8	68.2
9:00 - 10:00	pm		65.2	--	67.2	--	69.7	68.3	--
10:00 - 11:00	pm		65.2	--	66.7	--	69.1	67.4	--
11:00 - 12:00	pm		63.9	--	65.1	--	68.3	67.0	--

= Nighttime period

= No measurement, or rainy or wet period

= Non-traffic related noise

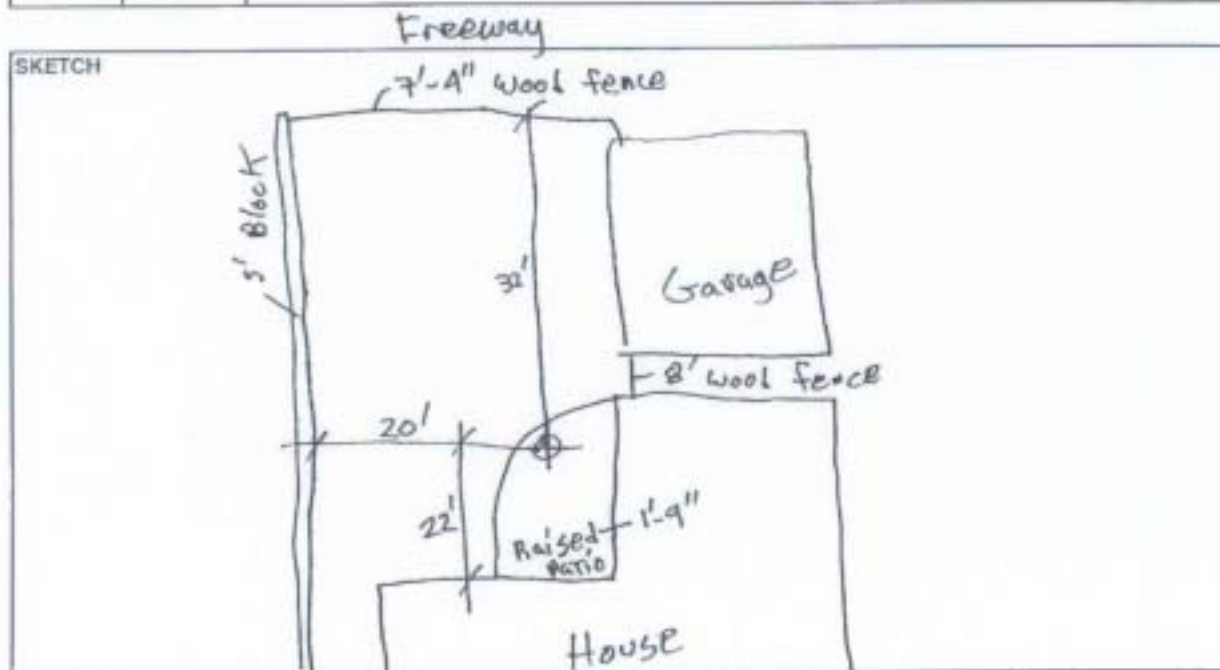
Bold exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <i>Ray and Matt</i>	DATE: 01-24-05
LOCATION: 7552 Midfield Avenue,			SITE NO.: 7552
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN <i>BK 4176</i>	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <i>72.7</i> °F WIND SPEED: <i>2</i> MPH TOWARD (DIR): <i>Freeway</i> R. HUMIDITY: <i>65.5</i> %  CAMERA _____ PHOTO NOS. _____
SERIAL #: <i>163</i>	SERIAL #: <i>2026930</i>	SERIAL #: <i>4076</i>	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> <i>BK 4195</i>	Calibration, dB: Input Reading Before <i>93.8</i> / <i>93.8</i> After <i>93.6</i> / <i>93.7</i>	TIME: <i>2:22</i>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <i>Pyon Tues off wed on fri-off @ 4:00</i>
DATE	TIME	
01-24-05	<i>2:35</i>	
STOP		
DATE	TIME	



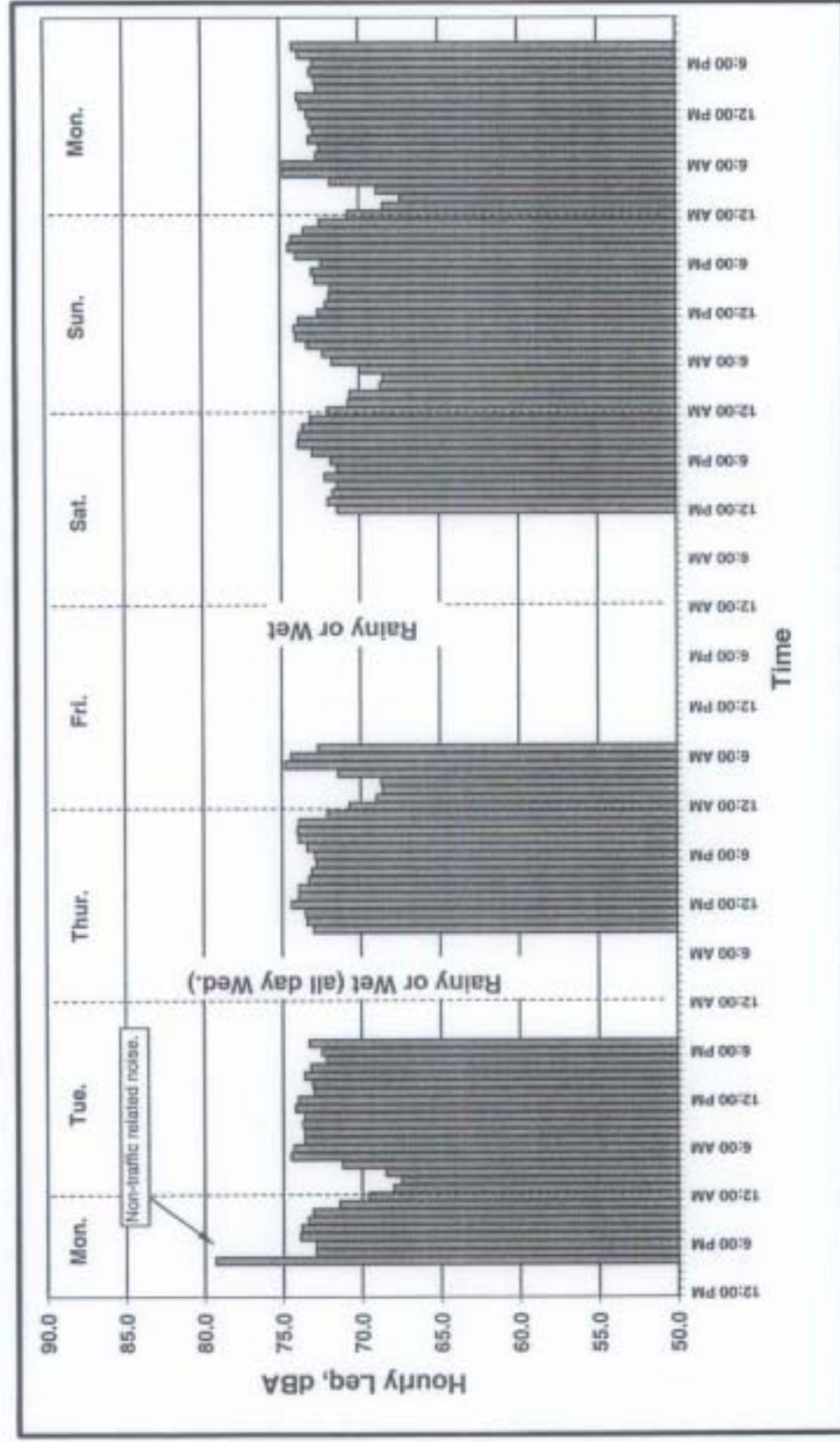
PARSONS

# Hourly Noise Levels, Leq(h)

74.8 dBA = Highest Measured Level

Location: 7558 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/25/05; no data reported.



## Hourly Noise Levels, Leq(h)

74.8 dBA

= Highest Measured Level

Location: 7558 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:		Mon	Tue	Thu	Fri	Sat	Sun	Mon
			Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	--	69.6	--	70.7	--	72.0	70.7
1:00 - 2:00	am	--	--	68.0	--	69.0	--	70.7	68.5
2:00 - 3:00	am	--	--	67.5	--	68.6	--	70.6	67.4
3:00 - 4:00	am	--	--	68.5	--	68.7	--	68.7	68.9
4:00 - 5:00	am	--	--	71.2	--	71.4	--	68.5	71.8
5:00 - 6:00	am	--	--	74.5	--	74.8	--	70.0	74.8
6:00 - 7:00	am	--	--	74.3	--	74.4	--	71.7	74.8
7:00 - 8:00	am	--	--	73.6	--	72.7	--	72.3	72.7
8:00 - 9:00	am	--	--	73.6	--	--	--	73.3	72.5
9:00 - 10:00	am	--	--	73.7	73.0	--	--	74.0	73.2
10:00 - 11:00	am	--	--	73.8	73.4	--	--	74.1	72.9
11:00 - 12:00	am	--	--	74.2	73.5	--	--	73.8	73.1
12:00 - 1:00	pm	--	--	74.0	74.4	--	--	72.6	73.3
1:00 - 2:00	pm	--	--	73.0	73.9	--	--	72.1	73.7
2:00 - 3:00	pm	--	--	73.1	73.9	--	--	71.9	73.9
3:00 - 4:00	pm	--	--	73.6	73.3	--	--	71.8	72.7
4:00 - 5:00	pm	79.3*	--	73.2	73.1	--	--	72.8	72.8
5:00 - 6:00	pm	72.9	--	72.2	72.8	--	--	73.0	73.1
6:00 - 7:00	pm	72.9	--	72.5	72.9	--	--	72.4	72.9
7:00 - 8:00	pm	73.9	--	73.3	73.4	--	--	74.0	73.8
8:00 - 9:00	pm	73.8	--	--	73.9	--	--	74.5	74.2
9:00 - 10:00	pm	73.4	--	--	74.0	--	--	74.3	--
10:00 - 11:00	pm	73.1	--	--	73.9	--	--	73.5	--
11:00 - 12:00	pm	71.4	--	--	72.1	--	--	72.5	--

= Nighttime period

-- = No measurement, or rainy or wet period

\* = Non-traffic related noise

Bold exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <i>Matt and Ray</i>	DATE: 01-24-05
LOCATION: 7558 Midfield Avenue,			SITE NO.: 7558
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>68</u> °F WIND SPEED: <u>0</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>85.0</u> %  CAMERA _____ PHOTO NOs. _____
SERIAL #: <u>159</u>	SERIAL #: <u>2145107</u>	SERIAL #: <u>3809</u>	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> BK 4155	Calibration, dB: Input Reading Before <u>90.8</u> / <u>94</u> After <u>93.8</u> / <u>93.8</u>	TIME: <u>4:29</u> <u>12:01</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES:
DATE	TIME	
01-24-05	4:30	
STOP		
DATE	TIME	
2-1-05	11:40	

SKETCH

PARSONS

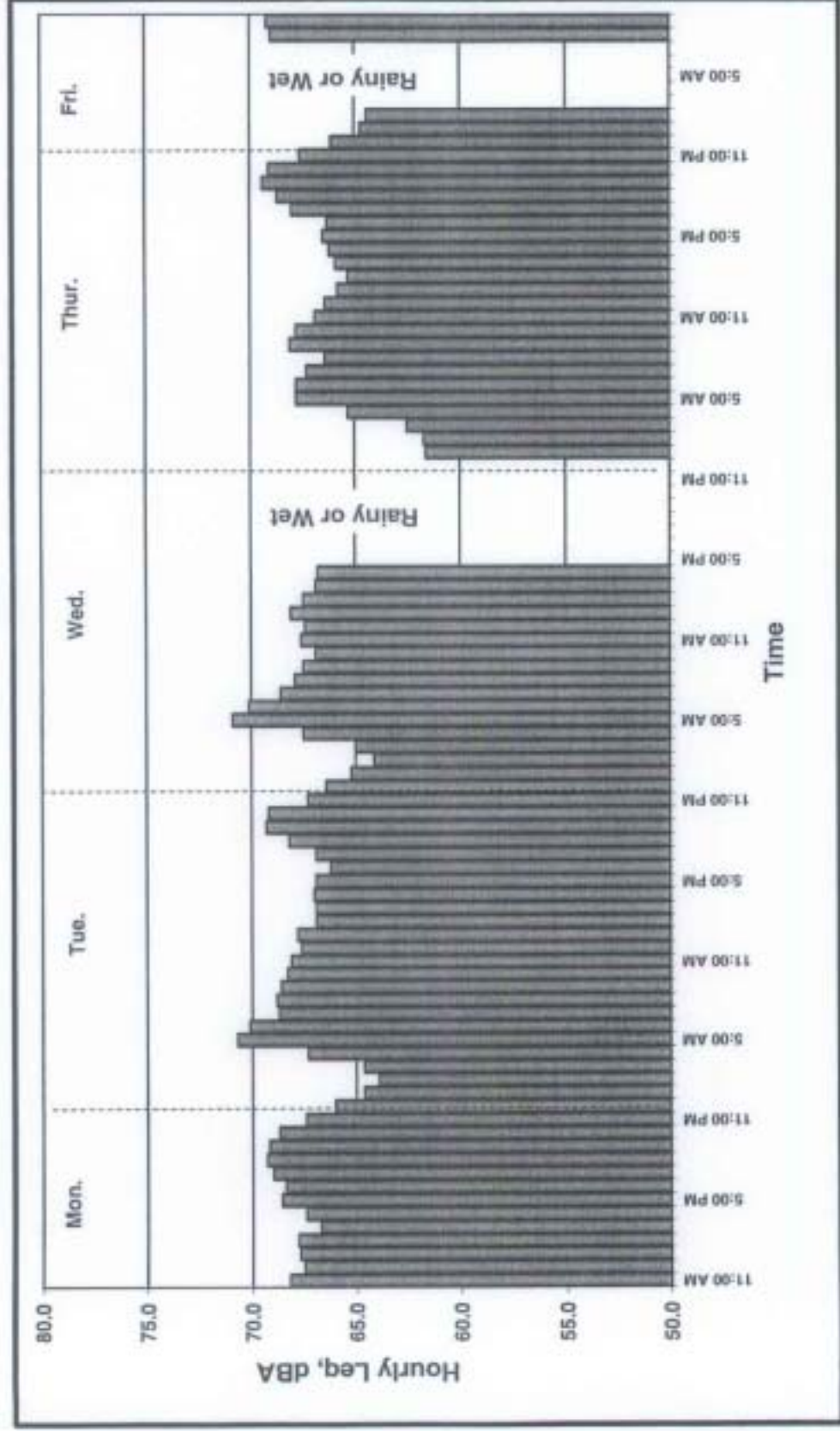


## Hourly Noise Levels, Leq(h)

**70.9 dBA** = Highest Measured Level

Location: 7562 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 2/28 – 3/4/2005

Notes: See attached Noise Measurement Form  
 Heavier rains occurred on Wed. and Fri.



# Hourly Noise Levels, Leq(h)

70.9 dBA

= Highest Measured Level

Location: 7562 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 2/28 – 3/4/2005

Notes: See attached Noise Measurement Form  
Heavier rains occurred on Wed. and Fri.

TIME	Date:		3/1 Tue	3/2 Wed	3/3 Thu	3/4 Fri
	Day:	2/28 Mon	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	66.0	66.4	--	66.1
1:00 - 2:00	am	--	64.6	65.2	61.6	64.7*
2:00 - 3:00	am	--	63.9	64.1	61.7	64.4*
3:00 - 4:00	am	--	64.6	65.0	62.5	--
4:00 - 5:00	am	--	67.3	67.5	65.3	--
5:00 - 6:00	am	--	70.7	70.9	67.8	--
6:00 - 7:00	am	--	70.1	70.1	67.8	--
7:00 - 8:00	am	--	68.7	68.6	67.3	--
8:00 - 9:00	am	--	68.8	67.9	66.4	69.0
9:00 - 10:00	am	--	68.6	67.5	68.1	69.2
10:00 - 11:00	am	--	68.3	66.9	67.8	--
11:00 - 12:00	am	68.2*	68.1	67.6	66.9	--
12:00 - 1:00	pm	67.5	67.6	67.4	66.4	--
1:00 - 2:00	pm	67.7	67.8	68.1*	65.8	--
2:00 - 3:00	pm	67.8	66.9	67.5*	65.3	--
3:00 - 4:00	pm	66.7	66.9	66.9	65.9	--
4:00 - 5:00	pm	67.4	67.0	66.8*	66.2	--
5:00 - 6:00	pm	68.6	68.9	--	66.5	--
6:00 - 7:00	pm	68.4	66.2	--	66.3	--
7:00 - 8:00	pm	69.0	68.9	--	68.0	--
8:00 - 9:00	pm	69.3	68.2	--	68.7	--
9:00 - 10:00	pm	69.2	69.3	--	69.4	--
10:00 - 11:00	pm	68.7	69.2	--	69.1	--
11:00 - 12:00	pm	67.4	67.3	--	67.6	--

-- = Nighttime period

-- = No measurement, or rainy or wet period

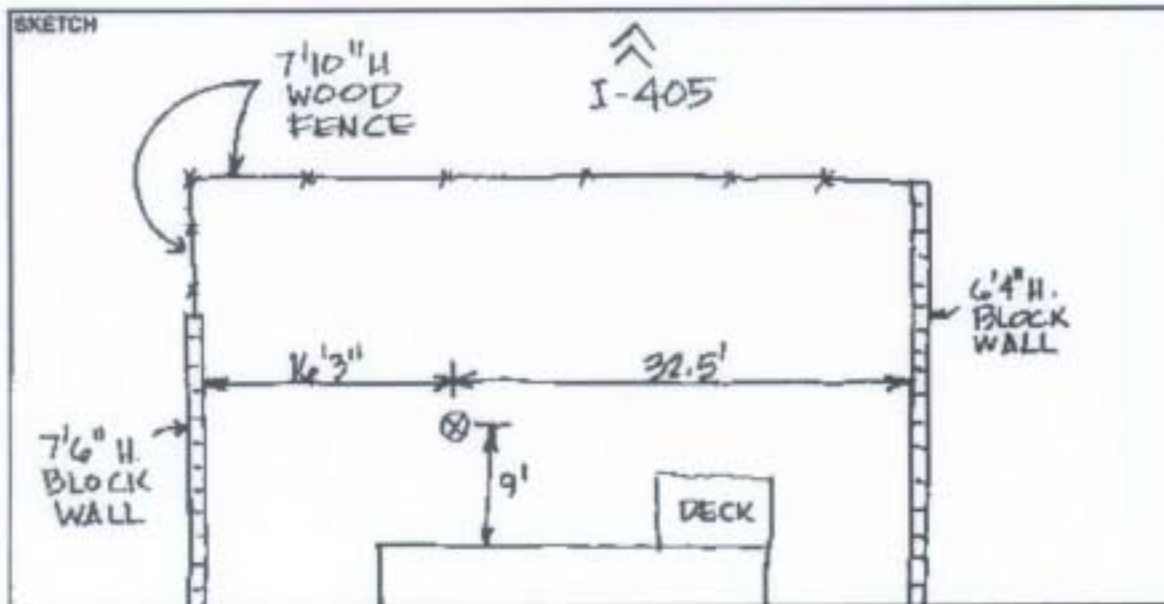
**Bold** exceeds extraordinary abatement criteria

\* = Light rain, no adverse effect on measurement

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <b>MATT</b>	DATE: 02-28-05
LOCATION: 7562 Midfield Avenue			SITE NO.: 7562
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/>	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/>	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>70.2</u> °F WIND SPEED: <u>    </u> MPH TOWARD (DIR): <u>    </u> R. HUMIDITY: <u>62</u> %  CAMERA <u>                    </u> PHOTO NOs. <u>                    </u>
SERIAL #: <u>0159</u>	SERIAL #: <u>2145107</u>	SERIAL #: <u>3809</u>	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> B&K A155	Calibration, dB: Input      Reading Before <u>94.0</u> / <u>94.0</u> After <u>94.0</u> / <u>93.6</u>	TIME: <u>11:28 A</u> <u>9:21 A</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS Leq, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES:
DATE	TIME	
02-28-05	11:00A	
STOP		
DATE	TIME	
03-04-05	9:20A	



PARSONS

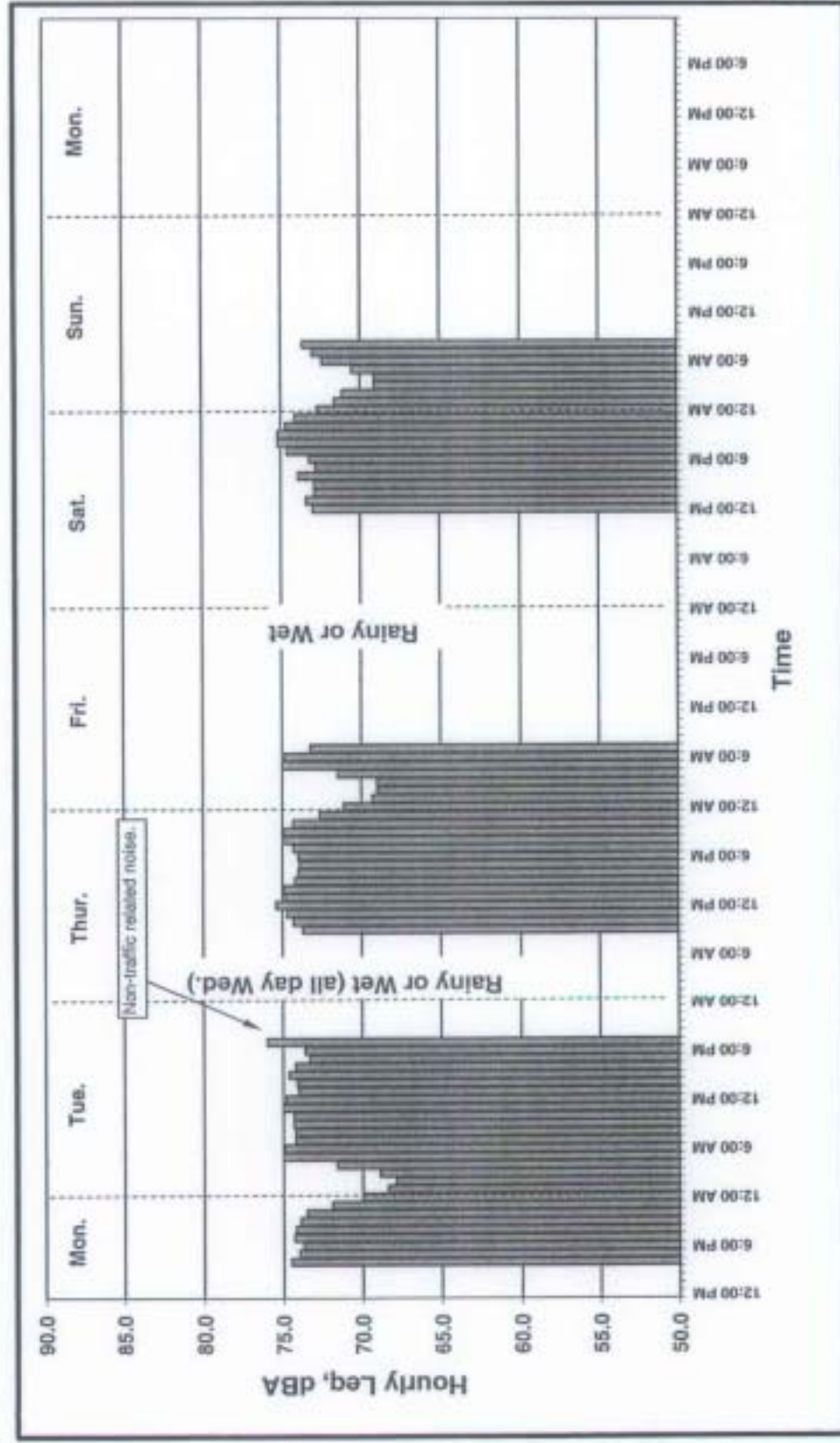


# Hourly Noise Levels, Leq(h)

**75.4 dBA** = Highest Measured Level

**Location:** 7568 Midfield Avenue, Inglewood, CA  
**Position:** Rear Yard  
**Sources:** I-405 Highway Traffic  
**Date:** 1/24 - 1/31

**Notes:** See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/25/05; no data reported.  
 A/C power failure on Sunday.





## Hourly Noise Levels, Leq(h)

75.4 dBA = Highest Measured Level

Location: 7568 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:	Mon	Tue	Thu	Fri	Sat	Sun	Mon	
		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	70.0	--	71.1	--	72.7	--	--
1:00 - 2:00	am	--	68.4	--	69.3	--	71.6	--	--
2:00 - 3:00	am	--	67.9	--	69.0	--	71.1	--	--
3:00 - 4:00	am	--	68.9	--	69.0	--	69.1	--	--
4:00 - 5:00	am	--	71.6	--	71.5	--	69.1	--	--
5:00 - 6:00	am	--	75.0	--	75.0	--	70.5	--	--
6:00 - 7:00	am	--	74.9	--	74.8	--	72.4	--	--
7:00 - 8:00	am	--	74.2	--	73.2	--	73.0	--	--
8:00 - 9:00	am	--	74.2	--	--	--	73.6	--	--
9:00 - 10:00	am	--	74.3	73.7	--	--	--	--	--
10:00 - 11:00	am	--	74.3	74.3	--	--	--	--	--
11:00 - 12:00	am	--	75.0	74.7	--	--	--	--	--
12:00 - 1:00	pm	--	74.8	75.4	--	--	73.0	--	--
1:00 - 2:00	pm	--	74.0	74.8	--	--	73.4	--	--
2:00 - 3:00	pm	--	74.1	74.9	--	--	72.9	--	--
3:00 - 4:00	pm	--	74.6	74.2	--	--	72.9	--	--
4:00 - 5:00	pm	74.5	74.2	74.0	--	--	73.9	--	--
5:00 - 6:00	pm	74.0	73.3	73.9	--	--	72.8	--	--
6:00 - 7:00	pm	73.7	73.6	74.0	--	--	73.2	--	--
7:00 - 8:00	pm	74.3	76.0**	74.3	--	--	74.6	--	--
8:00 - 9:00	pm	74.2	--	74.8	--	--	75.2	--	--
9:00 - 10:00	pm	73.9	--	74.9	--	--	75.2	--	--
10:00 - 11:00	pm	73.5	--	74.3	--	--	74.7	--	--
11:00 - 12:00	pm	71.9	--	72.6	--	--	74.1	--	--

-- = Nighttime period

\*\* = Non-traffic related noise

-- = No measurement, or rainy or wet period

\* = A/C power failure on Sunday

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>ET</u>	DATE: 01-24-05
LOCATION: 7568 Midfield Avenue,			SITE NO.: 7568
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input checked="" type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>64</u> °F WIND SPEED: <u>0.9</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>67</u> %  CAMERA <u>ET</u> PHOTO NOS. <u>2</u>
SERIAL #: <u>04910</u>	SERIAL #: <u>2206</u>	SERIAL #: <u>2661</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114.0</u> / <u>114.0</u> After <u>114</u> / <u>114.1</u>	TIME: <u>0930</u> <u>0945</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <u>covered microphone 1/25 1935</u> <u>uncovered microphone: unknown (no noise)</u> <u>microphone uncovered 7/1 upon retrieval</u> <u>meter stopped 30 Jan 2005 @ 0840</u>
DATE	TIME	
01-24-05	10:00A	
STOP		
DATE	TIME	

SKETCH

7568

## Hourly Noise Levels, Leq(h)

72.5 dBA

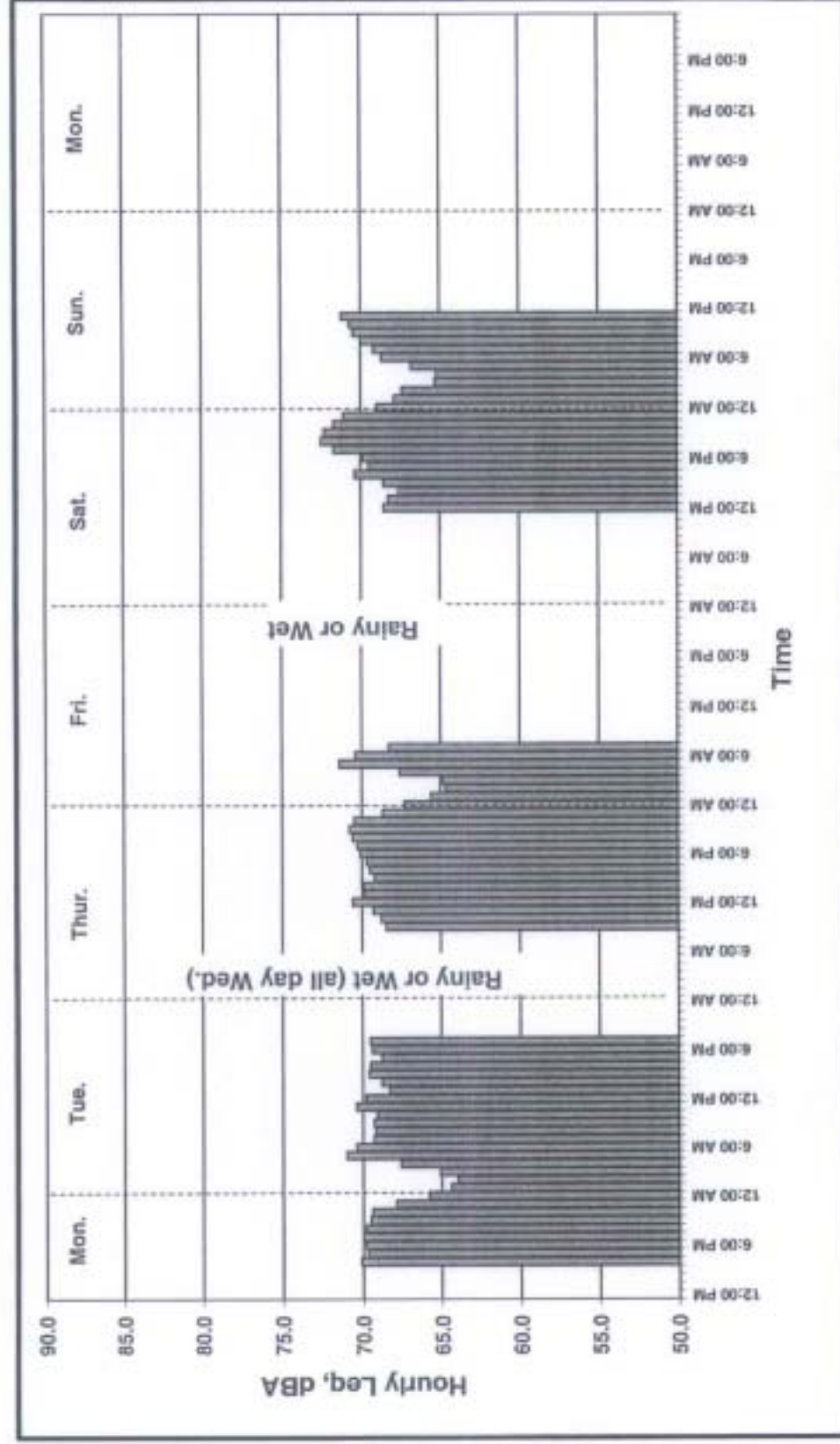
= Highest Measured Level

**Location:** 7572 Midfield Avenue, Inglewood, CA  
**Position:** Rear Yard  
**Sources:** I-405 Highway Traffic  
**Date:** 1/24 – 1/31

**Notes:** See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Automatic run timer stopped meter on Sunday at 12 noon.





## Hourly Noise Levels, Leq(h)

Location: 7572 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

72.5 dBA

= Highest Measured Level

Notes: See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:	Mon	Tue	Thu	Fri	Sat	Sun	Mon	
		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	65.8	--	67.3	--	69.0	--	--
1:00 - 2:00	am	--	64.4	--	65.6	--	67.9	--	--
2:00 - 3:00	am	--	64.0	--	64.7	--	67.4	--	--
3:00 - 4:00	am	--	65.1	--	64.9	--	65.3	--	--
4:00 - 5:00	am	--	67.6	--	67.6	--	65.2	--	--
5:00 - 6:00	am	--	71.0	--	71.4	--	66.8	--	--
6:00 - 7:00	am	--	70.4	--	70.4	--	68.7	--	--
7:00 - 8:00	am	--	69.3	--	68.3	--	69.2	--	--
8:00 - 9:00	am	--	69.2	--	--	--	70.0	--	--
9:00 - 10:00	am	--	69.3	68.5	--	--	70.5	--	--
10:00 - 11:00	am	--	69.1	68.8	--	--	70.7	--	--
11:00 - 12:00	am	--	70.4	69.3	--	--	71.2	--	--
12:00 - 1:00	pm	--	69.8	70.6	--	68.6	--	--	--
1:00 - 2:00	pm	--	68.3	69.8	--	68.3	--	--	--
2:00 - 3:00	pm	--	68.8	69.9	--	67.6	--	--	--
3:00 - 4:00	pm	--	69.6	69.2	--	68.6	--	--	--
4:00 - 5:00	pm	70.1	69.5	69.5	--	70.4	--	--	--
5:00 - 6:00	pm	69.7	68.8	69.7	--	69.5	--	--	--
6:00 - 7:00	pm	69.8	69.4	70.1	--	69.9	--	--	--
7:00 - 8:00	pm	70.0	69.5	70.3	--	71.7	--	--	--
8:00 - 9:00	pm	69.8	--	70.6	--	72.5	--	--	--
9:00 - 10:00	pm	69.5	--	70.8	--	72.3	--	--	--
10:00 - 11:00	pm	69.4	--	70.5	--	71.7	--	--	--
11:00 - 12:00	pm	67.9	--	68.7	--	71.1	--	--	--

 = Nighttime period

-- = No measurement, or rainy or wet period

\* = Automatic run timer stopped meter on Sunday at 12 noon.

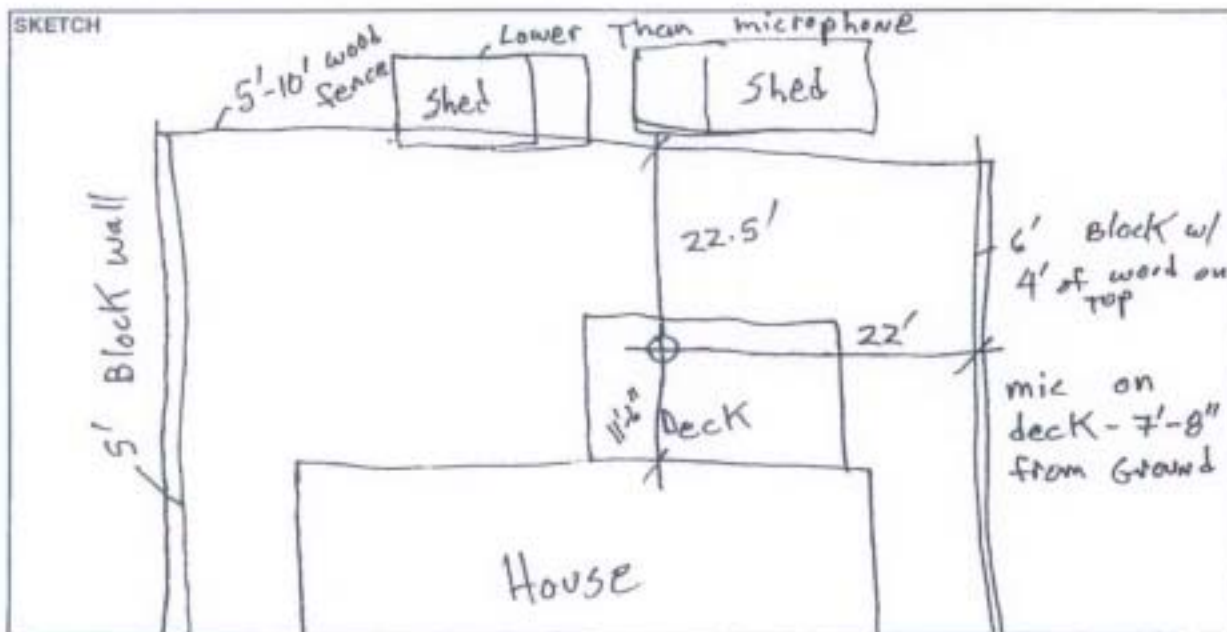
**Bold** exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Ray and Matt</u>	DATE: 01-24-05
LOCATION: 7572 Midfield Avenue,			SITE NO.: 7572
SOUND LEVEL METER: <input type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input checked="" type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> NH-21	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>72.5</u> °F WIND SPEED: <u>0</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>61</u> %  CAMERA _____ PHOTO NOS. _____
SERIAL #: <u>346</u>	SERIAL #:	SERIAL #: <u>01553</u>	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> BK	Calibration, dB: Input Reading Before <u>93.8</u> / <u>93.9</u> After <u>93.8</u> / <u>93.8</u>	TIME: <u>1:27</u> <u>11:15</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <u>Home owner was not home for pick-up</u>
DATE	TIME	
01-24-05	<u>2:00</u>	
STOP		
DATE	TIME	
1-30-05	<u>12:06</u>	→ Timer stop



PARSONS

## Hourly Noise Levels, Leq(h)

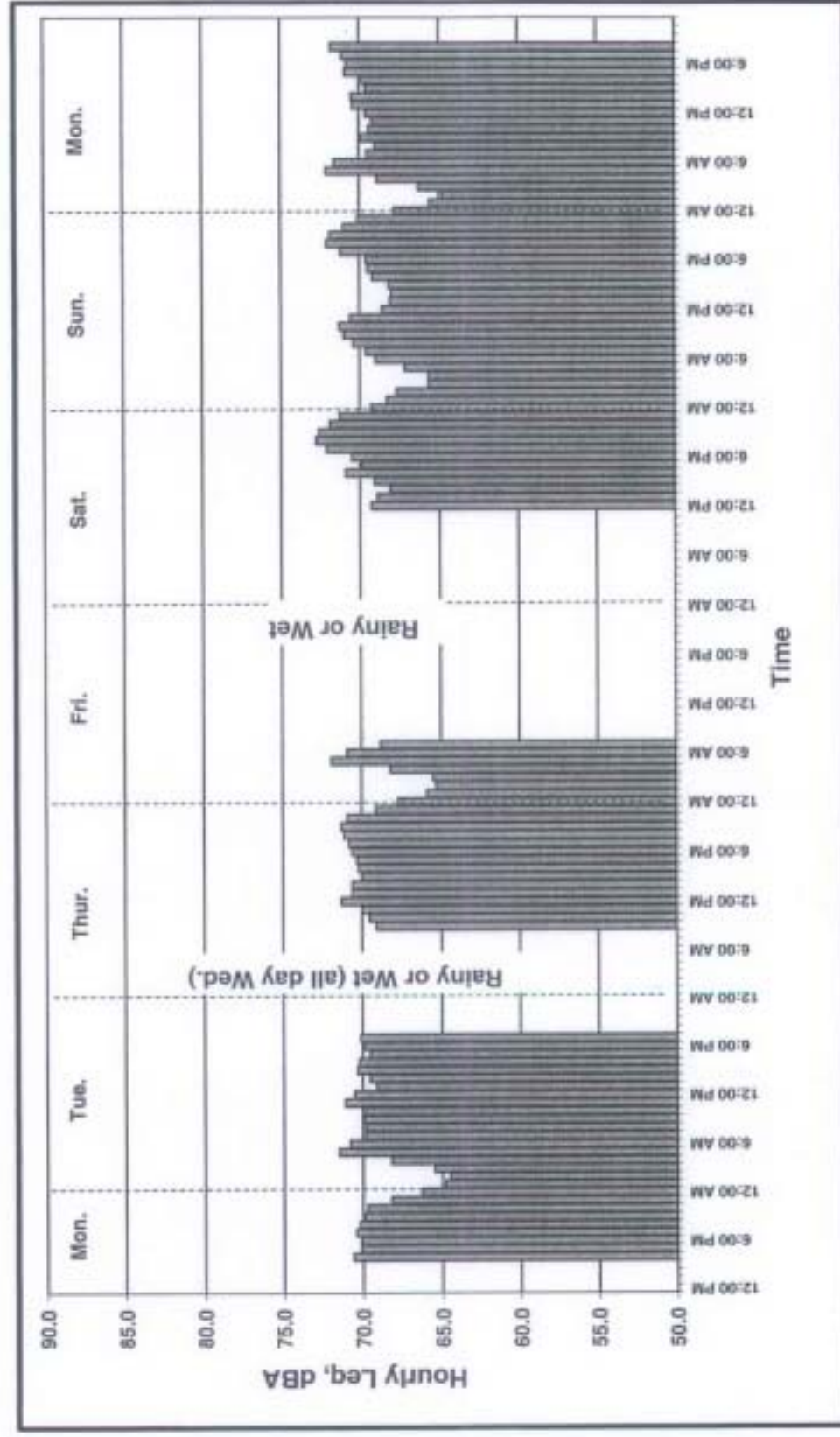
72.8 dBA

= Highest Measured Level

Location: 7578 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.



## Hourly Noise Levels, Leq(h)

Location: 7578 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

**72.8 dBA**

= Highest Measured Level

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Date: Day:	1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
TIME	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00 am	--	66.3	--	67.7	--	69.3	67.8
1:00 - 2:00 am	--	64.8	--	65.9	--	68.3	65.6
2:00 - 3:00 am	--	64.5	--	65.3	--	67.7	64.8
3:00 - 4:00 am	--	65.5	--	65.5	--	65.7	66.3
4:00 - 5:00 am	--	68.2	--	68.2	--	65.7	68.9
5:00 - 6:00 am	--	71.5	--	71.9	--	67.2	72.1
6:00 - 7:00 am	--	70.8	--	70.9	--	69.0	71.6
7:00 - 8:00 am	--	69.8	--	68.8	--	69.6	69.5
8:00 - 9:00 am	--	69.8	--	--	--	70.4	69.0
9:00 - 10:00 am	--	69.9	69.1	--	--	71.0	69.9
10:00 - 11:00 am	--	69.8	69.5	--	--	71.3	69.4
11:00 - 12:00 am	--	71.1	70.0	--	--	70.6	69.2
12:00 - 1:00 pm	--	70.5	71.3	--	69.3	68.6	69.6
1:00 - 2:00 pm	--	69.1	70.6	--	68.9	68.1	70.4
2:00 - 3:00 pm	--	69.5	70.6	--	68.1	68.0	70.5
3:00 - 4:00 pm	--	70.3	70.0	--	69.1	68.2	69.6
4:00 - 5:00 pm	70.6	70.2	70.2	--	70.9	69.2	69.8
5:00 - 6:00 pm	70.1	69.5	70.3	--	69.9	69.5	70.9
6:00 - 7:00 pm	70.1	69.9	70.6	--	70.5	69.6	70.8
7:00 - 8:00 pm	70.4	70.1	70.8	--	72.1	71.2	71.1
8:00 - 9:00 pm	70.2	--	71.1	--	72.8	72.1	71.8
9:00 - 10:00 pm	69.9	--	71.3	--	72.6	71.9	--
10:00 - 11:00 pm	69.7	--	70.9	--	71.9	71.0	--
11:00 - 12:00 pm	68.2	--	69.1	--	71.3	70.1	--

-- = Nighttime period

-- = No measurement, or rainy or wet period

**Bold** exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: ET	DATE: 01-24-05
LOCATION: 7578 Midfield Avenue,			SITE NO.: 7578
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: 63 °F WIND SPEED: 0 MPH TOWARD (DIR): _____ R. HUMIDITY: 81 %  CAMERA _____ PHOTO NOS. _____
SERIAL #: 0124	SERIAL #: 2048447	SERIAL #: 0279	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before 119.0 / 119.0 After 114.0 / 113.9	TIME: 1545 0950	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: covered microphone 1/25 2030 uncovered microphone: unk (no answer) bag appeared to have blown off, on the ground in backyard upon retrieval
DATE	TIME	
01-24-05	1600	
STOP		
DATE	TIME	

SKETCH

8' WF includes 2' lattice

25'

29'

35'

Deck

6' MW

6' MW with 2' lattice (wind) on top

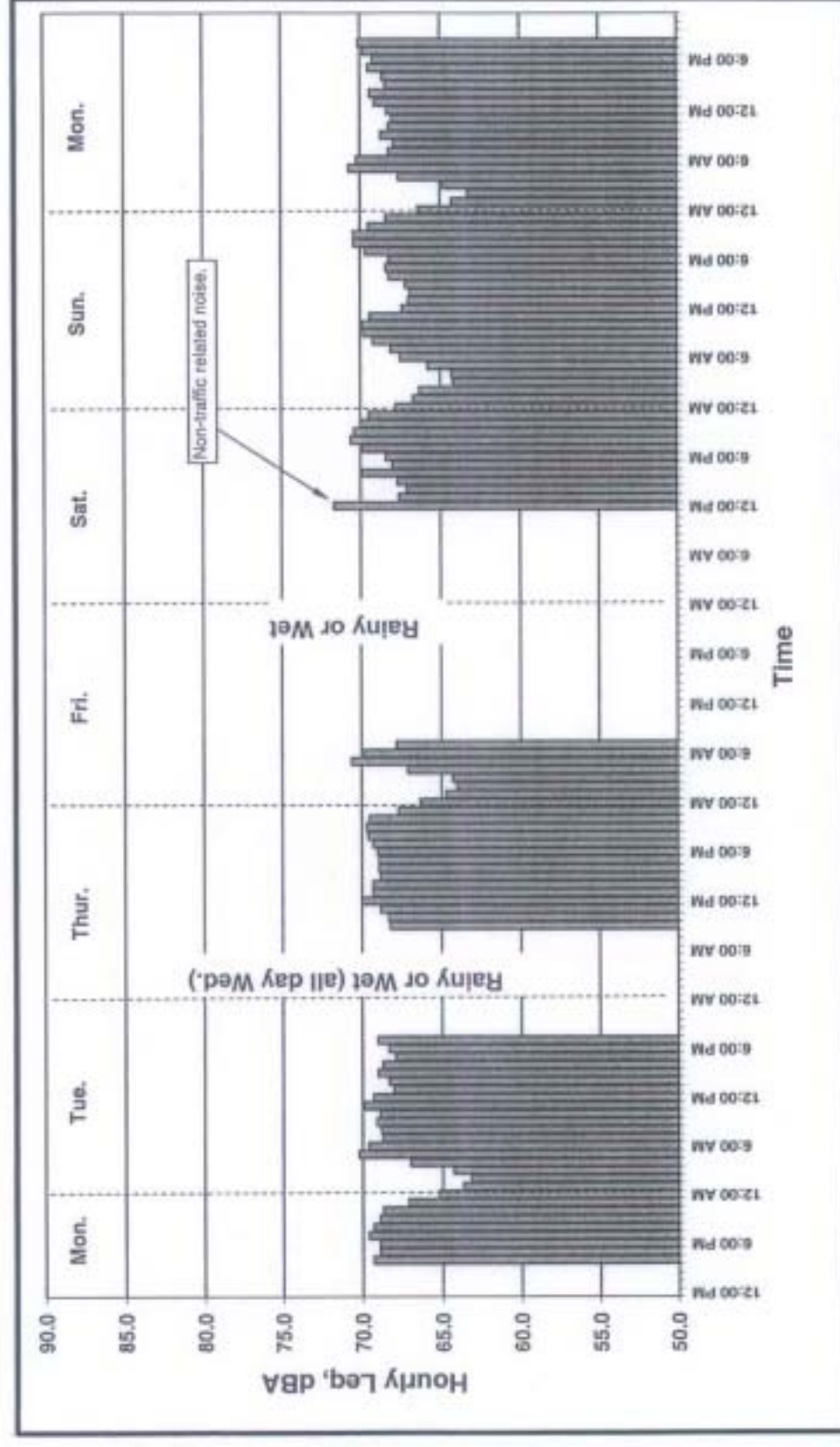
7578



## 70.7 dBA

= Highest Measured Level

**Notes:** See attached Noise Measurement Form  
Rain occurred all day Wed, 1/26/05; no data reported.



## Hourly Noise Levels, Leq(h)

70.7 dBA = Highest Measured Level

Location: 7600 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 - 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:	Mon	Tue	Thu	Fri	Sat	Sun	Mon	
		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	65.2	--	66.3	--	67.8	66.4	
1:00 - 2:00	am	--	63.7	--	64.7	--	66.7	64.3	
2:00 - 3:00	am	--	63.2	--	64.0	--	66.3	63.3	
3:00 - 4:00	am	--	64.3	--	64.3	--	64.2	64.8	
4:00 - 5:00	am	--	67.0	--	67.1	--	64.3	67.6	
5:00 - 6:00	am	--	70.2	--	70.6	--	65.8	70.7	
6:00 - 7:00	am	--	69.6	--	69.8	--	67.5	70.2	
7:00 - 8:00	am	--	68.7	--	67.8	--	68.1	68.2	
8:00 - 9:00	am	--	68.8	--	--	--	69.2	67.9	
9:00 - 10:00	am	--	69.1	68.2	--	--	69.8	68.7	
10:00 - 11:00	am	--	68.9	68.3	--	--	69.9	68.2	
11:00 - 12:00	am	--	69.9	68.8	--	--	69.4	68.0	
12:00 - 1:00	pm	--	69.3	70.0	--	71.7*	67.4	68.3	
1:00 - 2:00	pm	--	68.0	69.3	--	67.6	67.0	69.1	
2:00 - 3:00	pm	--	68.3	69.3	--	67.1	66.9	69.4	
3:00 - 4:00	pm	--	69.0	68.8	--	67.7	67.2	68.4	
4:00 - 5:00	pm	69.3	68.7	68.9	--	69.9	68.2	68.6	
5:00 - 6:00	pm	68.9	67.9	68.9	--	68.0	68.4	69.5	
6:00 - 7:00	pm	68.9	68.3	69.0	--	68.4	68.2	69.2	
7:00 - 8:00	pm	69.6	69.0	69.3	--	69.9	69.7	69.8	
8:00 - 9:00	pm	69.3	--	69.6	--	70.6	70.4	70.1	
9:00 - 10:00	pm	68.9	--	69.7	--	70.4	70.4	--	
10:00 - 11:00	pm	68.7	--	69.5	--	70.0	69.5	--	
11:00 - 12:00	pm	67.1	--	67.7	--	69.5	68.4	--	

= Nighttime period

-- = No measurement, or rainy or wet period

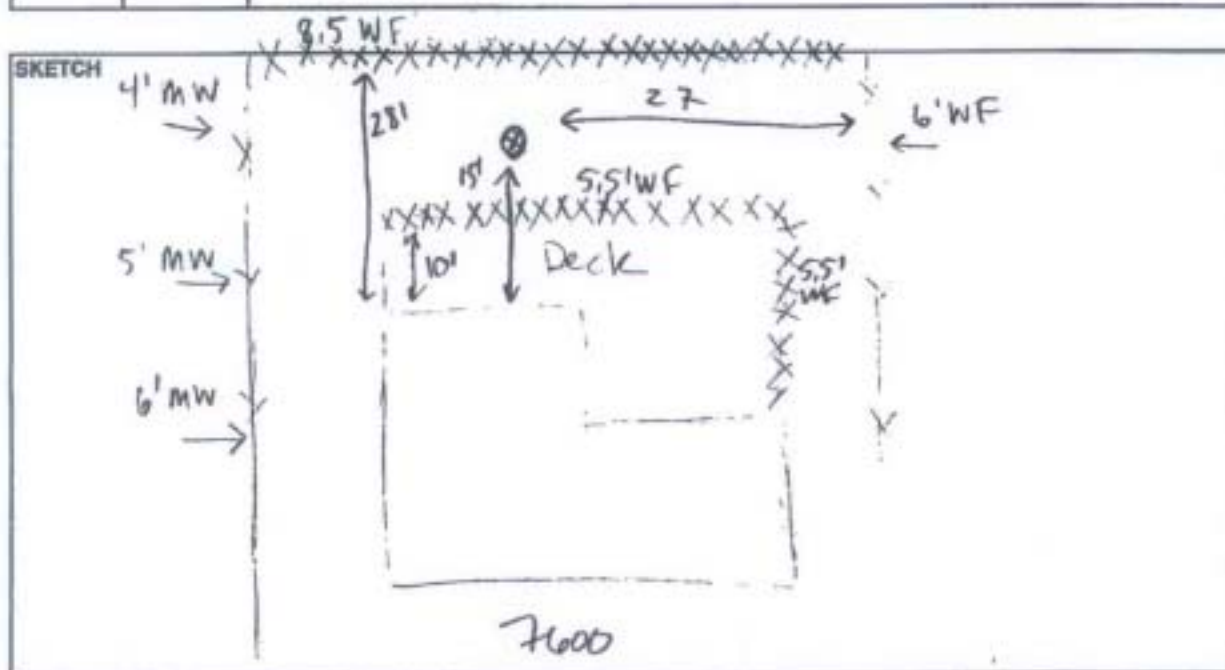
\* = Non-traffic related noise

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: ET	DATE: 01-24-05
LOCATION: 7600 Midfield Avenue,			SITE NO.: 7600
SOUND LEVEL METER: <input type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input checked="" type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input checked="" type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>67</u> °F WIND SPEED: <u>0</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>71</u> %  CAMERA <u>ET</u> PHOTO NOS. <u>#3</u>
SERIAL #: <u>0484</u>	SERIAL #: <u>284163</u>	SERIAL #: <u>2947</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114.0</u> / <u>114.0</u> After <u>114.0</u> / <u>113.9</u>	TIME: <u>1550</u> <u>1010</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: 5.5' wood fence surrounds patio - 2nd barrier 8.5' wood fence @ property line includes 21 lattice at top covered microphone 1/25 1930 uncovered microphone 1/27 0530
DATE	TIME	
01-24-05	1600	
STOP		
DATE	TIME	



PARSONS



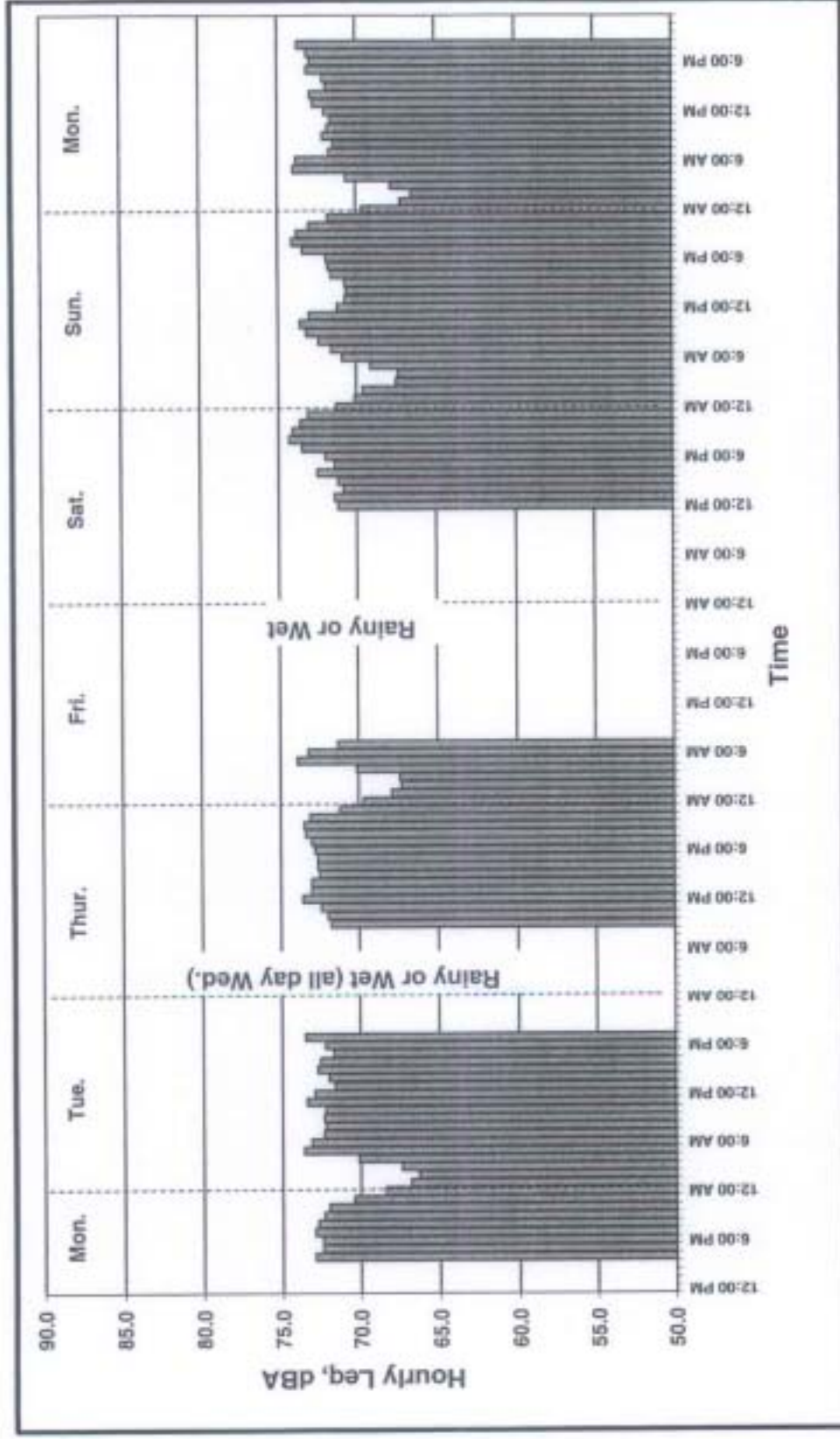
## Hourly Noise Levels, Leq(h)

74.3 dBA

= Highest Measured Level

Location: 7606 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/25/05; no data reported.





## Hourly Noise Levels, Leq(h)

74.3 dBA = Highest Measured Level

Location: 7606 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Date: Day:	1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
TIME	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00 am	--	68.4	--	69.7	--	71.3	69.6
1:00 - 2:00 am	--	66.8	--	67.9	--	70.1	67.2
2:00 - 3:00 am	--	66.3	--	67.3	--	69.6	66.5
3:00 - 4:00 am	--	67.4	--	67.4	--	67.5	67.8
4:00 - 5:00 am	--	70.1	--	70.1	--	67.4	70.6
5:00 - 6:00 am	--	73.6	--	73.9	--	69.1	74.0
6:00 - 7:00 am	--	73.1	--	73.2	--	70.9	73.6
7:00 - 8:00 am	--	72.3	--	71.3	--	71.6	71.7
8:00 - 9:00 am	--	72.2	--	--	--	72.4	71.4
9:00 - 10:00 am	--	72.3	71.8	--	--	73.2	72.1
10:00 - 11:00 am	--	72.2	72.0	--	--	73.6	71.8
11:00 - 12:00 am	--	73.4	72.4	--	--	73.0	71.6
12:00 - 1:00 pm	--	72.9	73.6	--	71.2	71.2	72.0
1:00 - 2:00 pm	--	71.6	73.0	--	71.4	70.7	72.7
2:00 - 3:00 pm	--	72.0	73.0	--	70.8	70.6	72.9
3:00 - 4:00 pm	--	72.7	72.5	--	71.2	70.7	71.9
4:00 - 5:00 pm	72.9	72.5	72.6	--	72.5	71.6	72.1
5:00 - 6:00 pm	72.4	71.7	72.6	--	71.4	71.8	73.1
6:00 - 7:00 pm	72.4	72.2	72.8	--	72.0	71.9	72.9
7:00 - 8:00 pm	72.9	73.5	73.0	--	73.5	73.4	73.1
8:00 - 9:00 pm	72.7	--	73.4	--	74.3	74.1	73.7
9:00 - 10:00 pm	72.3	--	73.5	--	74.1	73.8	--
10:00 - 11:00 pm	72.0	--	73.1	--	73.6	73.0	--
11:00 - 12:00 pm	70.4	--	71.2	--	73.1	71.8	--

Nighttime period

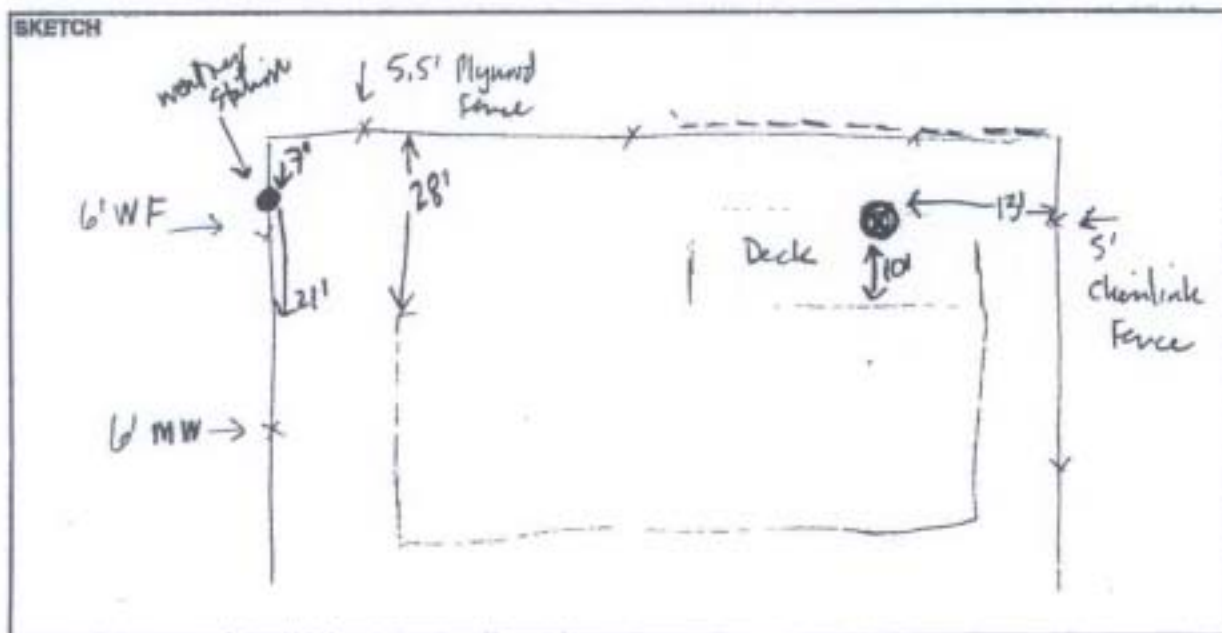
-- = No measurement, or rainy or wet period

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: ET	DATE: 01-24-05
LOCATION: 7608 Midfield Avenue,			SITE NO.: 7606
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>64</u> °F WIND SPEED: <u>0</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>64</u> %  CAMERA <u>ET</u> PHOTO NO. <u>#4, 5</u>
SERIAL #: <u>0128</u>	SERIAL #: <u>2141</u>	SERIAL #: <u>3095</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114.0</u> / <u>114.0</u> After <u>114.0</u> / <u>114.0</u>	TIME: <u>1245</u> <u>1020</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES:  ----- = 2' top section of plywood fence missing from fence  * Weather Station Site * covered microphone 1/25 1926 unground microphone: on message before
DATE	TIME	
01-24-05	1300	
STOP		
DATE	TIME	



PARSONS

## Hourly Noise Levels, Leq(h)

72.5 dBA

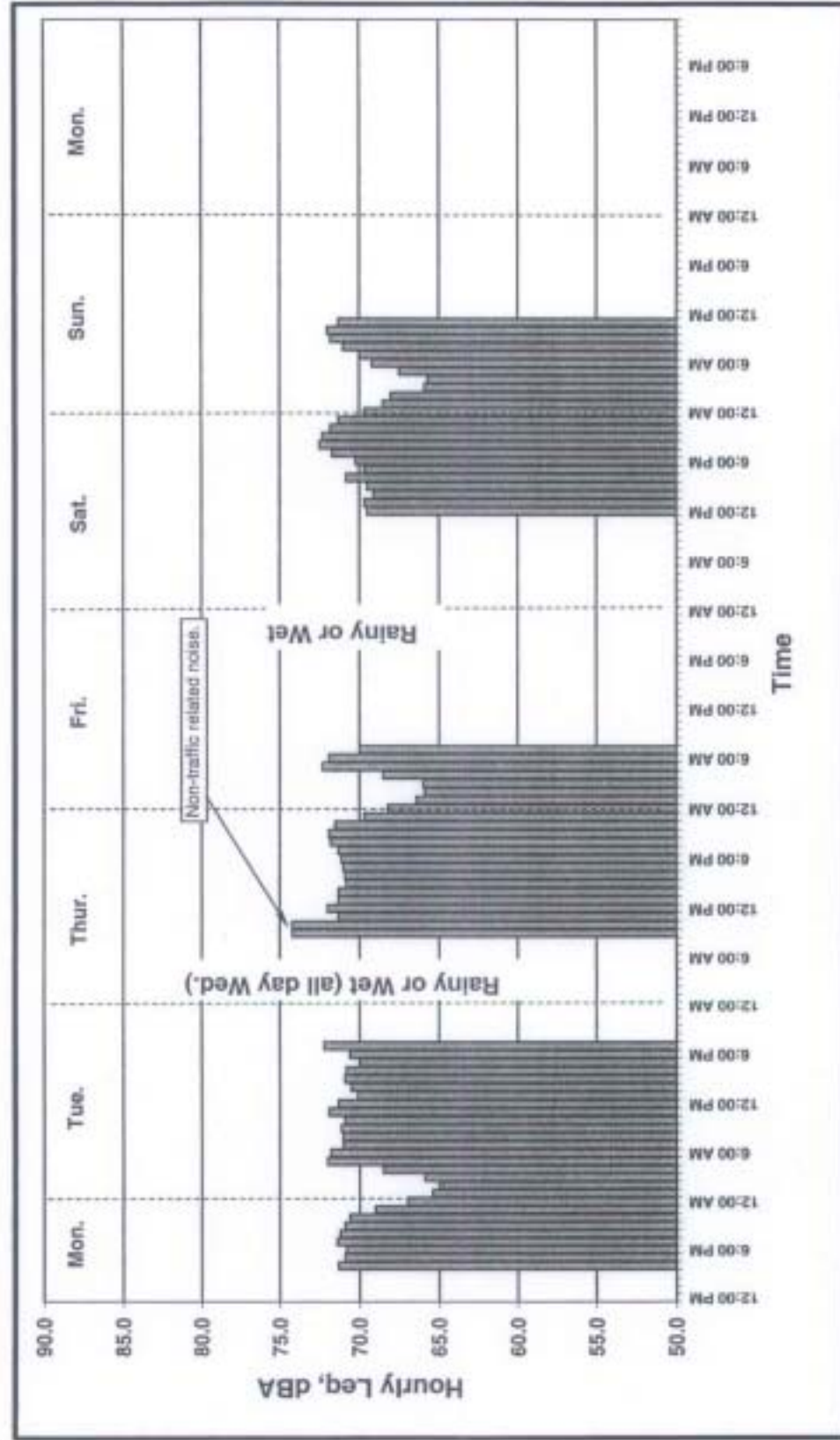
= Highest Measured Level

**Location:** 7612 Midfield Avenue, Inglewood, CA  
**Position:** Rear Yard  
**Sources:** I-405 Highway Traffic  
**Date:** 1/24 – 1/31

### Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Automatic run timer stopped meter on Sunday at 12 noon.





## Hourly Noise Levels, Leq(h)

72.5 dBA = Highest Measured Level

Location: 7612 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
Day:	Mon	Tue	Thu	Fri	Sat	Sun	Mon	
	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	
TIME								
12:00 - 1:00	am	--	--	--	--	--	69.7	*
1:00 - 2:00	am	--	--	--	--	--	68.5	*
2:00 - 3:00	am	--	--	--	--	--	68.0	*
3:00 - 4:00	am	--	--	--	--	--	65.9	*
4:00 - 5:00	am	--	--	--	--	--	65.7	*
5:00 - 6:00	am	--	--	--	--	--	67.5	*
6:00 - 7:00	am	--	--	--	--	--	69.2	*
7:00 - 8:00	am	--	--	--	70.0	--	70.0	*
8:00 - 9:00	am	--	--	--	--	--	71.0	*
9:00 - 10:00	am	--	74.2**	--	--	--	71.8	*
10:00 - 11:00	am	--	74.2**	--	--	--	72.0	*
11:00 - 12:00	am	--	71.3	--	--	--	71.3	*
12:00 - 1:00	pm	--	72.0	--	--	69.5	*	*
1:00 - 2:00	pm	--	71.3	--	--	69.7	*	*
2:00 - 3:00	pm	--	71.3	--	--	69.1	*	*
3:00 - 4:00	pm	--	70.8	--	--	69.5	*	*
4:00 - 5:00	pm	71.3	70.9	--	--	70.8	*	*
5:00 - 6:00	pm	70.9	71.0	--	--	69.7	*	*
6:00 - 7:00	pm	70.8	71.1	--	--	70.2	*	*
7:00 - 8:00	pm	71.4	71.3	--	--	71.7	*	*
8:00 - 9:00	pm	71.2	71.8	--	--	72.5	*	*
9:00 - 10:00	pm	70.9	71.9	--	--	72.3	*	--
10:00 - 11:00	pm	70.6	71.5	--	--	71.8	*	--
11:00 - 12:00	pm	69.0	69.7	--	--	71.3	*	--

\*\* = Nighttime period

\* = Non-traffic related noise

-- = No measurement, or rainy or wet period

Bold exceeds extraordinary abatement criteria

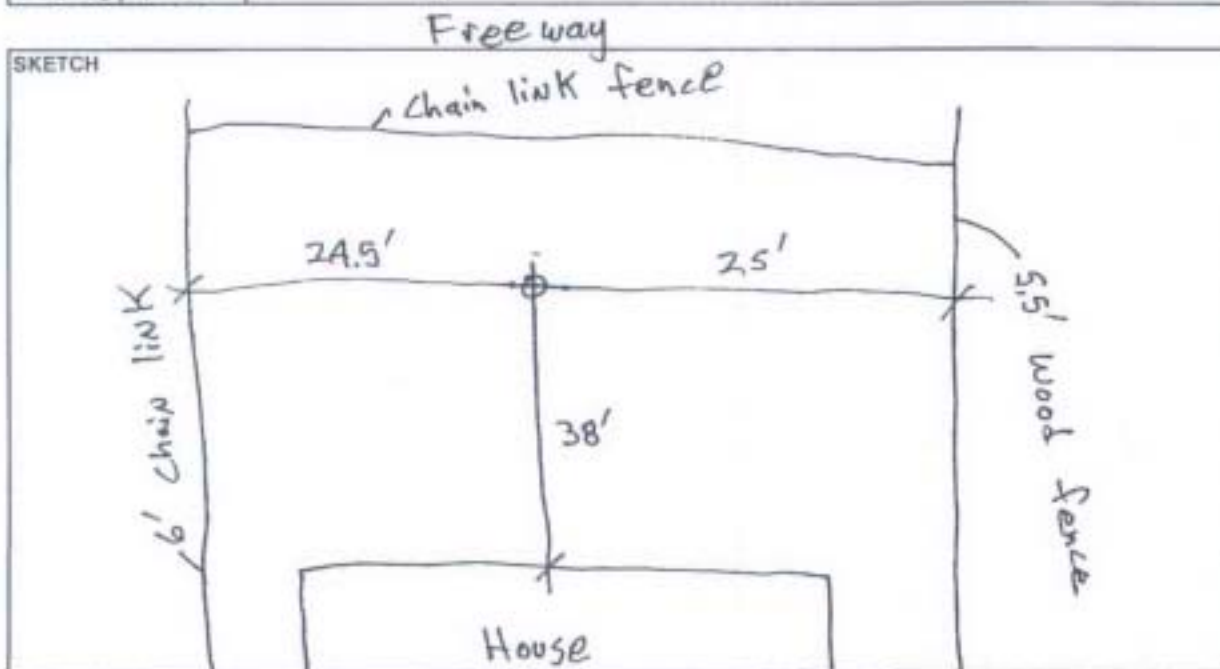
\* = Automatic run timer stopped meter on Sunday at 12 noon.



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Ray and Platt</u>	DATE: 01-24-05
LOCATION: 7612 Midfield Avenue,			SITE NO.: 7612
SOUND LEVEL METER: <input type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input checked="" type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> HA-21	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>73.4</u> °F WIND SPEED: <u>4.5</u> MPH TOWARD (DIR): <u>Freeway</u> R. HUMIDITY: <u>61.3</u> %  CAMERA _____ PHOTO NOS. _____
SERIAL #: <u>021</u>	SERIAL #:	SERIAL #:	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> BK 4155	Calibration, dB: Input Reading Before <u>93.8 / 93.9</u> After <u>93.8 / 93.8</u>	TIME: <u>1:00</u> <u>10:36</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <u>Bag on Tues took off on wed.</u>
DATE	TIME	
01-24-05	<u>2:00</u>	
STOP		
DATE	TIME	
01-30-05	12:00	→ Timer off



PARSONS

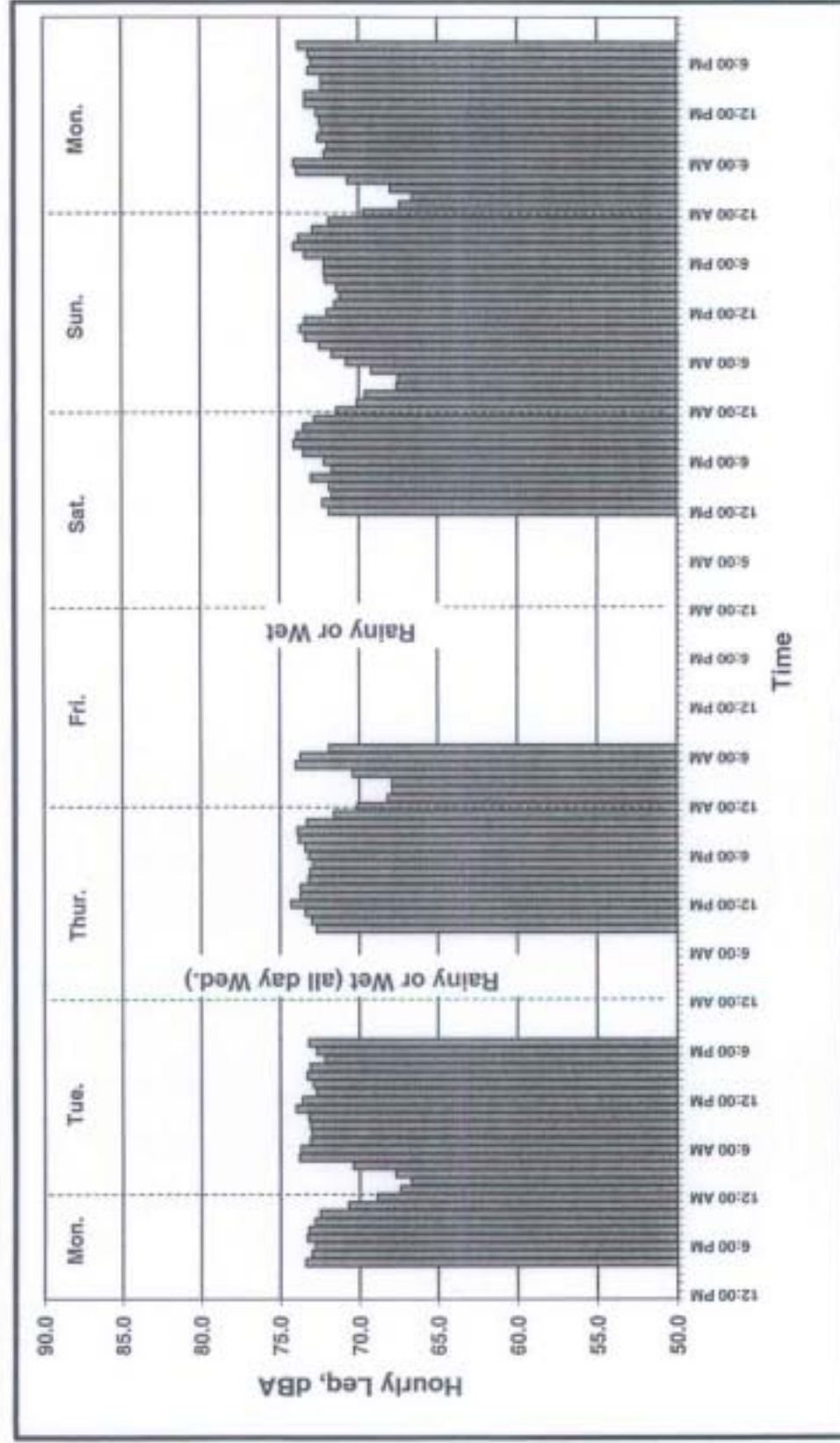
# Hourly Noise Levels, Leq(h)

Location: 7616 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

74.3 dBA

= Highest Measured Level

Notes: See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/26/05; no data reported.



## Hourly Noise Levels, Leq(h)

74.3 dBA = Highest Measured Level

Location: 7616 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:		Mon	Tue	Thu	Fri	Sat	Sun	Mon
		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	68.9	--	--	70.1	--	71.4	69.7
1:00 - 2:00	am	--	67.4	--	--	68.2	--	70.1	67.4
2:00 - 3:00	am	--	66.7	--	--	67.9	--	69.6	68.6
3:00 - 4:00	am	--	67.7	--	--	67.9	--	67.6	68.0
4:00 - 5:00	am	--	70.4	--	--	70.4	--	67.5	70.7
5:00 - 6:00	am	--	73.8	--	--	74.0	--	69.2	73.9
6:00 - 7:00	am	--	73.7	--	--	73.7	--	70.8	74.1
7:00 - 8:00	am	--	73.1	--	--	71.9	--	71.7	72.2
8:00 - 9:00	am	--	73.0	--	--	--	--	72.5	72.0
9:00 - 10:00	am	--	73.1	--	72.7	--	--	73.4	72.6
10:00 - 11:00	am	--	73.2	--	73.0	--	--	73.7	72.4
11:00 - 12:00	am	--	74.0	--	73.4	--	--	73.4	72.5
12:00 - 1:00	pm	--	73.6	--	74.3	--	--	72.0	72.7
1:00 - 2:00	pm	--	72.7	--	73.7	--	71.9	71.5	73.4
2:00 - 3:00	pm	--	72.9	--	73.7	--	72.3	71.2	73.4
3:00 - 4:00	pm	--	73.3	--	73.2	--	71.7	71.4	72.4
4:00 - 5:00	pm	73.4	73.1	73.1	73.1	--	73.0	72.1	72.4
5:00 - 6:00	pm	73.0	72.2	72.9	72.9	--	71.7	72.2	73.2
6:00 - 7:00	pm	72.8	72.7	73.2	73.2	--	72.2	72.2	73.0
7:00 - 8:00	pm	73.3	73.2	73.4	73.4	--	73.5	73.4	73.2
8:00 - 9:00	pm	73.2	--	73.8	--	--	74.1	74.1	73.8
9:00 - 10:00	pm	72.8	--	73.9	--	--	73.9	73.8	--
10:00 - 11:00	pm	72.5	--	73.3	--	--	73.5	72.9	--
11:00 - 12:00	pm	70.7	--	71.6	--	--	72.8	71.9	--

Nighttime period

-- = No measurement, or rainy or wet period

Bold exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <i>Joel Narquez</i>	DATE: 01-24-05
LOCATION: 7616 Midfield Avenue,			SITE NO.: 7616
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <del>LD-800</del> <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> LD-900C	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>66.7</u> °F WIND SPEED: <u>0.6</u> MPH TOWARD (DIR): <u>NC</u> R. HUMIDITY: <u>75</u> %  CAMERA <u>CANON A7S</u> PHOTO NOs. <u>23-28</u>
SERIAL #: <u>0160</u>	SERIAL #: <u>1916182</u>	SERIAL #: <u>0224</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114.0</u> <u>1 5.8 off</u> After <u>114.0</u> <u>114.0</u>	TIME: <u>13:17:16</u> <u>1040</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <i>Construction equipment @ freeway level/storage yard craned microphone (resident) YES 2025 uncraned microphone 0700</i>
DATE	TIME	
01-24-05	13:26:00	
STOP		
DATE	TIME	

SKETCH

I-405 SB →



## Hourly Noise Levels, Leq(h)

70.5 dBA

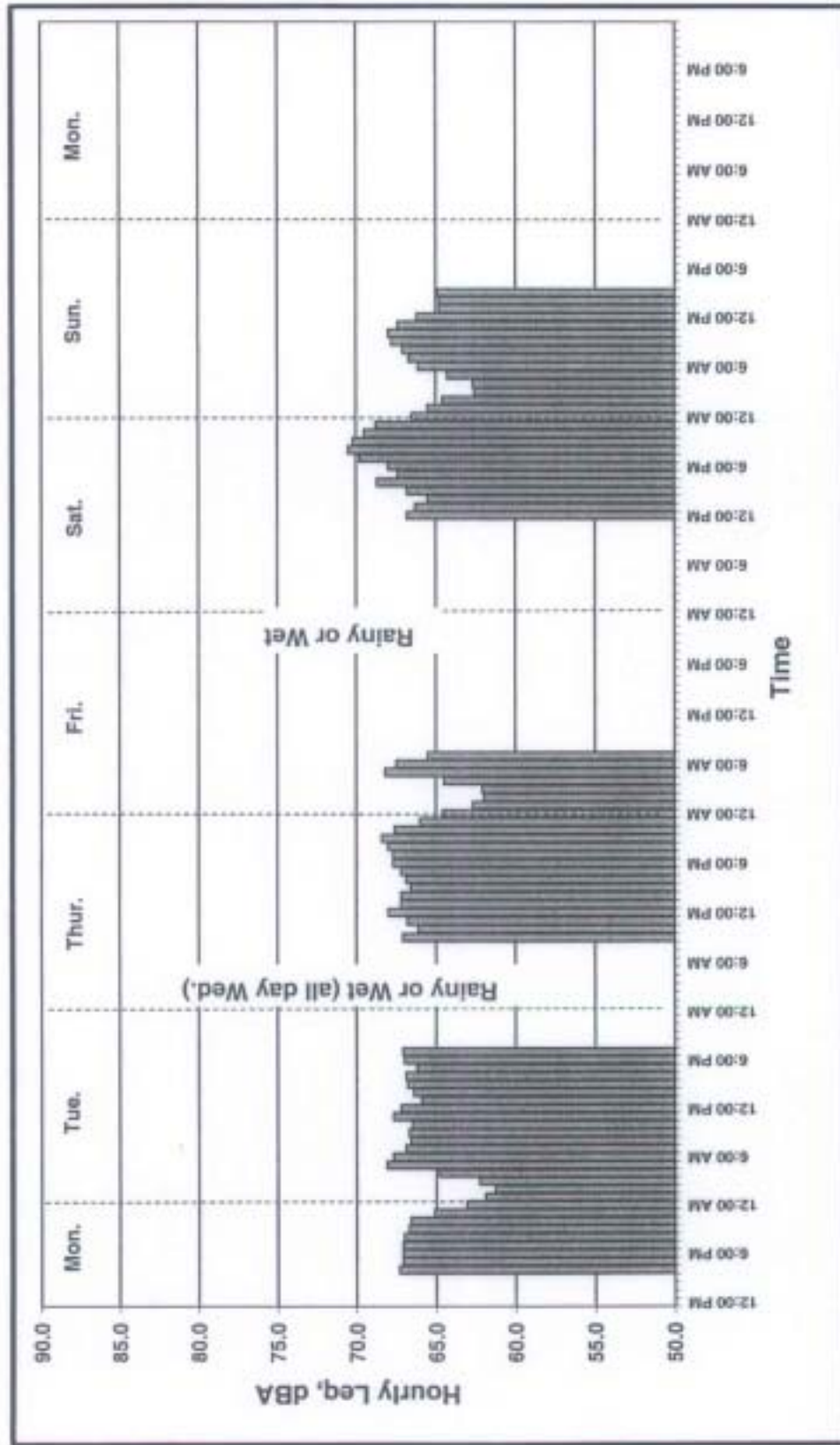
= Highest Measured Level

**Location:** 7620 Midfield Avenue, Inglewood, CA  
**Position:** Rear Yard  
**Sources:** I-405 Highway Traffic  
**Date:** 1/24 – 1/31

**Notes:** See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Automatic run timer stopped meter on Sunday at 4 pm.



## Hourly Noise Levels, Leq(h)

70.5 dBA

= Highest Measured Level

Location: 7620 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
Day:		Mon	Tue	Thu	Fri	Sat	Sun	Mon
		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
TIME	12:00 - 1:00	--	63.1	--	64.6	--	66.5	*
	1:00 - 2:00	--	61.9	--	62.7	--	65.5	*
	2:00 - 3:00	--	61.3	--	62.0	--	64.6	*
	3:00 - 4:00	--	62.3	--	62.1	--	62.6	*
	4:00 - 5:00	--	64.8	--	64.5	--	62.7	*
	5:00 - 6:00	--	68.1	--	68.2	--	64.3	*
	6:00 - 7:00	--	67.7	--	67.5	--	66.1	*
	7:00 - 8:00	--	66.9	--	65.5	--	66.7	*
	8:00 - 9:00	--	66.6	--	--	--	67.1	*
	9:00 - 10:00	--	66.7	67.1	--	--	67.8	*
	10:00 - 11:00	--	66.5	66.1	--	--	68.0	*
	11:00 - 12:00	--	67.7	66.8	--	--	67.4	*
	12:00 - 1:00	--	67.2	68.0	--	66.8	66.2	*
	1:00 - 2:00	--	65.9	67.2	--	66.3	64.8	*
	2:00 - 3:00	--	66.4	67.2	--	65.5	64.8	*
	3:00 - 4:00	--	66.8	66.6	--	66.8	64.9	*
	4:00 - 5:00	67.3	66.9	66.9	--	68.7	*	*
	5:00 - 6:00	67.1	66.2	67.2	--	67.4	*	*
6:00 - 7:00	67.1	67.0	67.7	--	68.0	*	*	
7:00 - 8:00	67.1	67.1	67.7	--	69.8	*	*	
8:00 - 9:00	67.0	--	68.0	--	70.5	*	*	
9:00 - 10:00	66.7	--	68.4	--	70.2	*	--	
10:00 - 11:00	66.6	--	67.6	--	69.5	*	--	
11:00 - 12:00	65.1	--	66.0	--	68.8	*	--	

= Nighttime period

= No measurement, or rainy or wet period

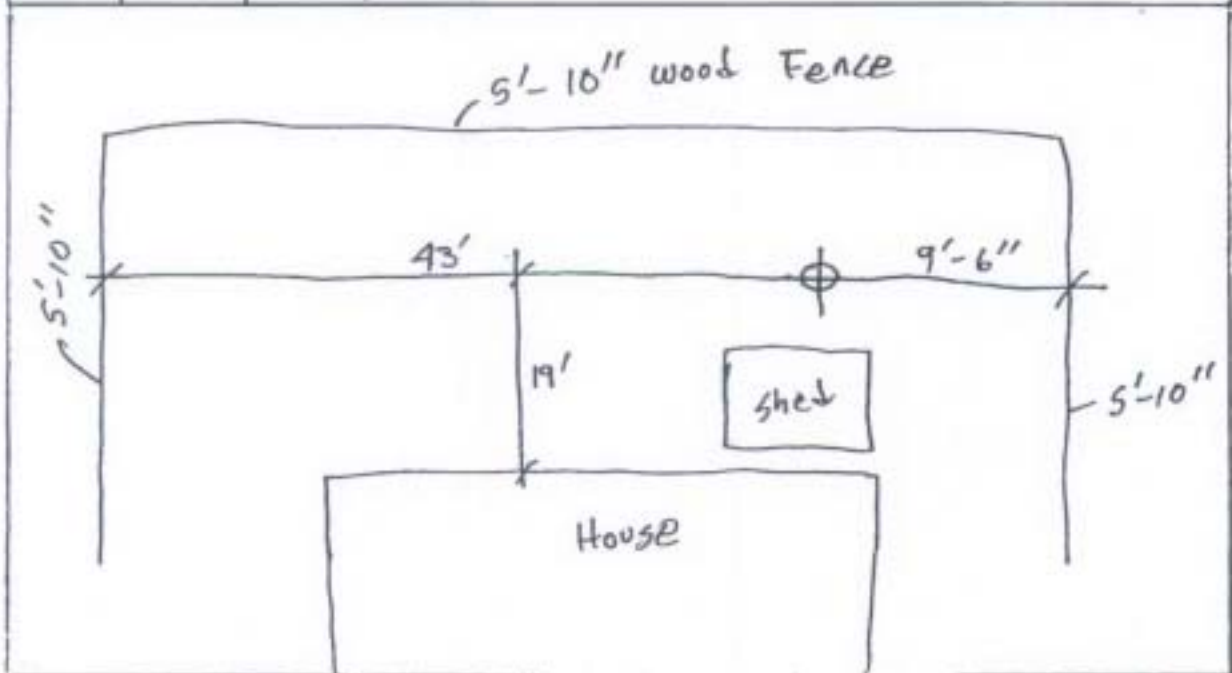
= Automatic run timer stopped meter on Sunday at 4 pm.

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Redy and Marr</u>	DATE: 01-24-05
LOCATION: 7620 Midfield Avenue,		SITE NO.: 7620	
SOUND LEVEL METER: <input type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input checked="" type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> NH-21	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>76</u> °F WIND SPEED: <u>0</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>52.8</u> %  CAMERA _____ PHOTO NOs. _____
SERIAL #: <u>323</u>	SERIAL #:	SERIAL #: <u>01530</u>	
CALIBRATOR:  <input type="checkbox"/> LD CA250 <input checked="" type="checkbox"/> BK 4155	Calibration, dB: Input Reading Before <u>93.8</u> / <u>93.9</u> After <u>93.8</u> / <u>93.8</u>	TIME: <u>11:46</u> <u>10:53</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <u>Bag on - Toes off on Wed Back on fr</u> <u>of Sat</u>
DATE	TIME	
01-24-05	12:00	
STOP		
DATE	TIME	
1-30-05	12:00	→ timer off



PARSONS

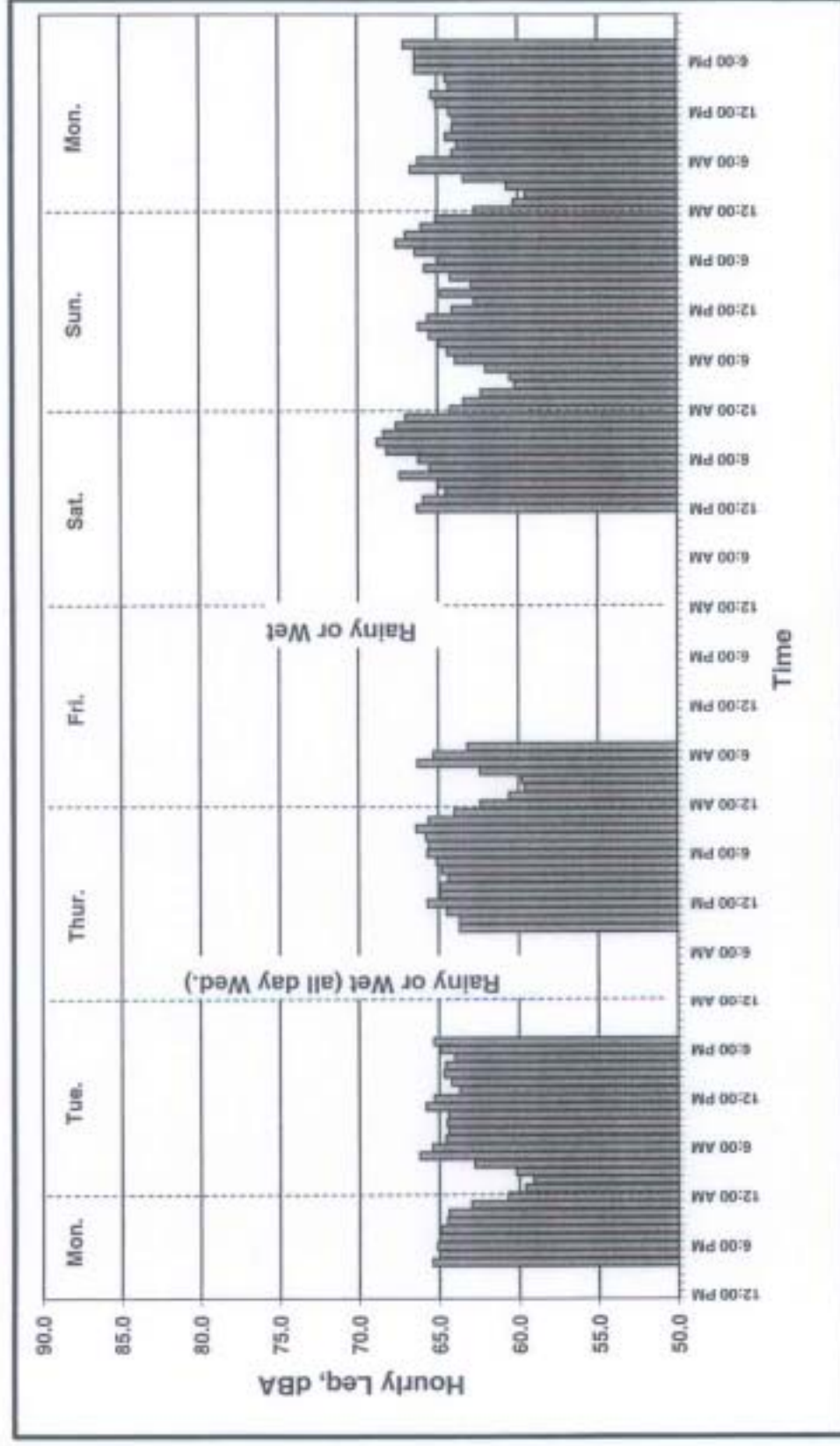
# Hourly Noise Levels, Leq(h)

68.8 dBA

= Highest Measured Level

Location: 7626 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/26/05; no data reported.





## Hourly Noise Levels, Leq(h)

68.8 dBA

= Highest Measured Level

Location: 7626 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/28/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:		Mon	Tue	Thu	Fri	Sat	Sun	Mon
			Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am		--	60.7	--	62.4	--	64.2	62.7
1:00 - 2:00	am		--	59.6	--	60.6	--	63.4	60.3
2:00 - 3:00	am		--	59.1	--	59.6	--	62.3	59.5
3:00 - 4:00	am		--	60.2	--	59.8	--	60.2	60.7
4:00 - 5:00	am		--	62.8	--	62.4	--	60.5	63.4
5:00 - 6:00	am		--	66.2	--	66.3	--	62.0	66.7
6:00 - 7:00	am		--	65.4	--	65.3	--	63.9	66.2
7:00 - 8:00	am		--	64.6	--	63.2	--	64.4	64.1
8:00 - 9:00	am		--	64.4	--	--	--	64.9	63.8
9:00 - 10:00	am		--	64.5	63.7	--	--	65.5	64.5
10:00 - 11:00	am		--	64.4	63.7	--	--	66.2	64.1
11:00 - 12:00	am		--	65.8	64.5	--	--	65.8	64.0
12:00 - 1:00	pm		--	65.3	65.7	--	66.3	64.1	64.3
1:00 - 2:00	pm		--	63.7	64.9	--	65.9	62.7	65.1
2:00 - 3:00	pm		--	64.2	64.9	--	64.5	64.8	65.4
3:00 - 4:00	pm		--	64.7	64.4	--	65.0	62.9	64.3
4:00 - 5:00	pm	65.4	65.4	64.6	64.8	--	67.4	64.2	64.5
5:00 - 6:00	pm	65.0	65.0	64.0	65.1	--	65.5	65.8	66.4
6:00 - 7:00	pm	65.1	65.1	64.9	65.7	--	66.2	65.0	66.4
7:00 - 8:00	pm	65.0	65.0	65.6	65.6	--	68.2	66.4	66.4
8:00 - 9:00	pm	64.9	64.9	65.8	65.8	--	68.8	67.6	67.1
9:00 - 10:00	pm	64.5	64.5	66.4	66.4	--	68.4	67.0	--
10:00 - 11:00	pm	64.4	64.4	65.6	65.6	--	67.6	66.0	--
11:00 - 12:00	pm	63.0	63.0	64.0	64.0	--	67.0	65.1	--

Nighttime period

-- = No measurement, or rainy or wet period

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: Steve Volaric	DATE: 01-24-05
LOCATION: 7626 Midfield Avenue,			SITE NO.: 7626
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> 3200	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input checked="" type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: 70 °F WIND SPEED: 1 MPH TOWARD (DIR): V A 2, 13, 6 E R. HUMIDITY: 63 %  CAMERA 175 PHOTO NOS. 2
SERIAL #: 344	SERIAL #: 2029	SERIAL #: 2	
CALIBRATOR: <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before 114.0 / 114.0 After 114.0 / 114.2	TIME: 2:14:00 1050	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: canned microphone 1/25 1920 uncorrected microphone: unknown
DATE	TIME	
01-24-05	14:30	
STOP		
DATE	TIME	

SKETCH

## Hourly Noise Levels, Leq(h)

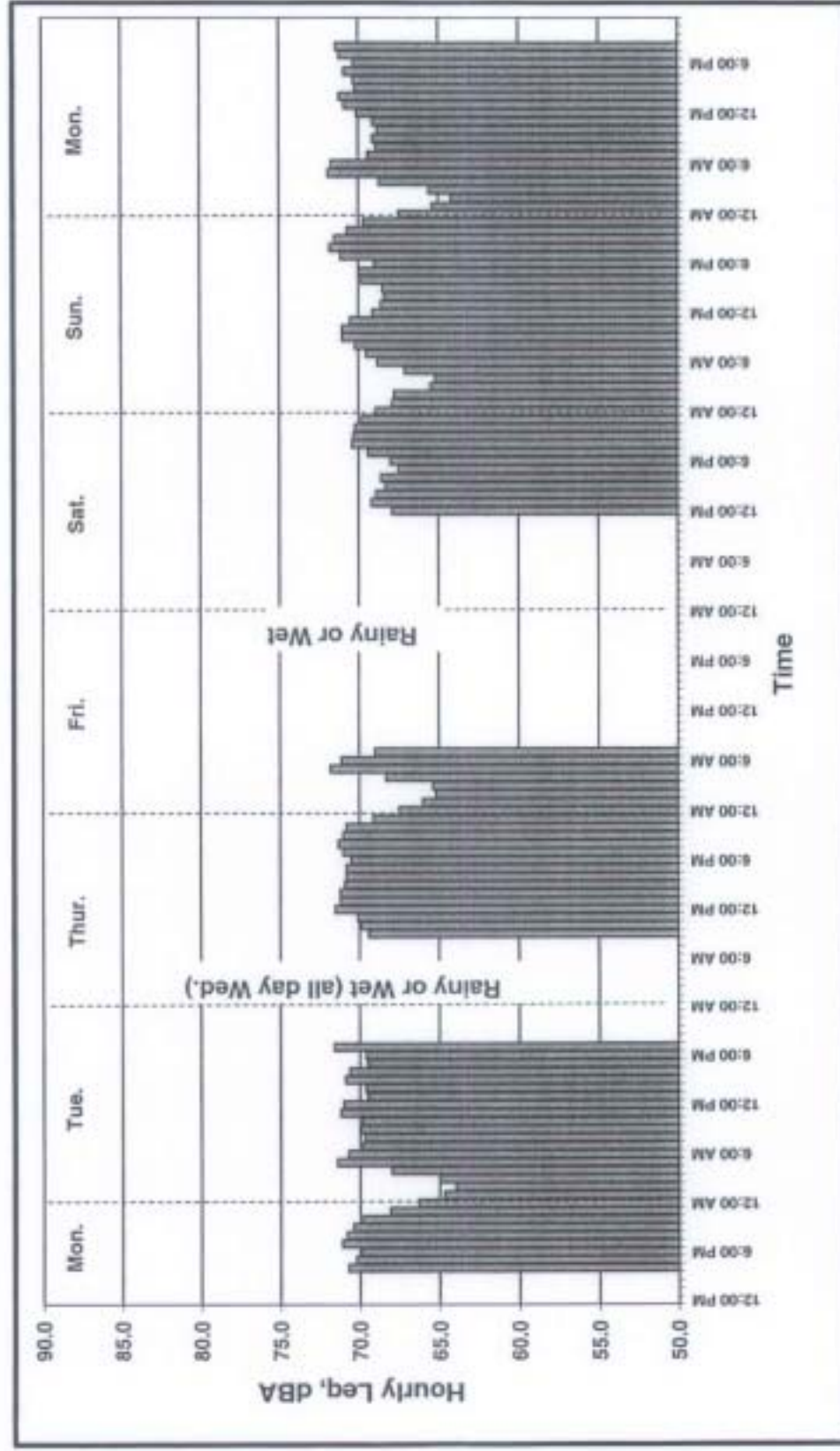
71.9 dBA

= Highest Measured Level

Location: 7634 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.





## Hourly Noise Levels, Leq(h)

Location: 7634 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

71.9 dBA

= Highest Measured Level

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date: Day:	1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00 am		--	65.3	--	67.5	--	68.9	67.5
1:00 - 2:00 am		--	64.7	--	66.0	--	67.9	65.4
2:00 - 3:00 am		--	64.0	--	65.2	--	67.8	64.2
3:00 - 4:00 am		--	65.0	--	65.4	--	65.5	65.6
4:00 - 5:00 am		--	68.0	--	69.3	--	65.2	68.7
5:00 - 6:00 am		--	71.4	--	71.8	--	67.1	71.9
6:00 - 7:00 am		--	70.7	--	71.1	--	68.8	71.7
7:00 - 8:00 am		--	69.8	--	69.0	--	69.5	69.4
8:00 - 9:00 am		--	69.7	--	--	--	70.2	68.9
9:00 - 10:00 am		--	69.9	69.4	--	--	71.0	69.1
10:00 - 11:00 am		--	69.8	69.9	--	--	71.0	68.8
11:00 - 12:00 am		--	71.2	70.1	--	--	70.5	69.1
12:00 - 1:00 pm		--	71.0	71.5	--	67.9	69.1	70.1
1:00 - 2:00 pm		--	69.5	71.2	--	69.2	68.6	70.9
2:00 - 3:00 pm		--	69.6	71.2	--	68.9	68.4	71.2
3:00 - 4:00 pm		--	70.9	70.9	--	68.3	68.5	70.2
4:00 - 5:00 pm		70.7	70.5	70.8	--	68.6	69.8	70.3
5:00 - 6:00 pm		70.2	69.5	70.8	--	67.5	70.0	70.9
6:00 - 7:00 pm		69.9	69.6	70.5	--	68.0	69.0	70.3
7:00 - 8:00 pm		71.1	71.6	71.0	--	69.4	71.1	71.2
8:00 - 9:00 pm		70.8	--	71.3	--	70.4	71.8	71.4
9:00 - 10:00 pm		70.4	--	71.0	--	70.3	71.5	--
10:00 - 11:00 pm		69.8	--	70.8	--	70.2	70.7	--
11:00 - 12:00 pm		68.1	--	69.1	--	69.8	69.7	--

☐ = Nighttime period

-- = No measurement, or rainy or wet period

**Bold** exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Joel Vazquez</u>	DATE: 01-24-05
LOCATION: 7634 Midfield Avenue,			SITE NO.: 7634
SOUND LEVEL METER: <input type="checkbox"/> LD-870 <input checked="" type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input checked="" type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input checked="" type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: _____ °F WIND SPEED: _____ MPH TOWARD (DIR): _____ R. HUMIDITY: _____ %  CAMERA <u>CANON A7S</u> PHOTO NOs. _____
SERIAL #: <u>A1177</u>	SERIAL #: <u>16967</u>	SERIAL #: <u>1629</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114.0</u> / <u>7.8 off</u> After <u>114.0</u> / <u>113.9</u>	TIME: <u>14:31:20</u> <u>1125</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <u>Backyard elevated relative to freeway</u> <u>overcast skies</u> <u>covered microphone 1/25 0718 uncovered microphone 1/27 2004</u> <u>→ alarm set off by car breaking into adobe house 1145 ←</u> <u>! duh!</u>
DATE	TIME	
01-24-05	14:56:41	
STOP		
DATE	TIME	

SKETCH

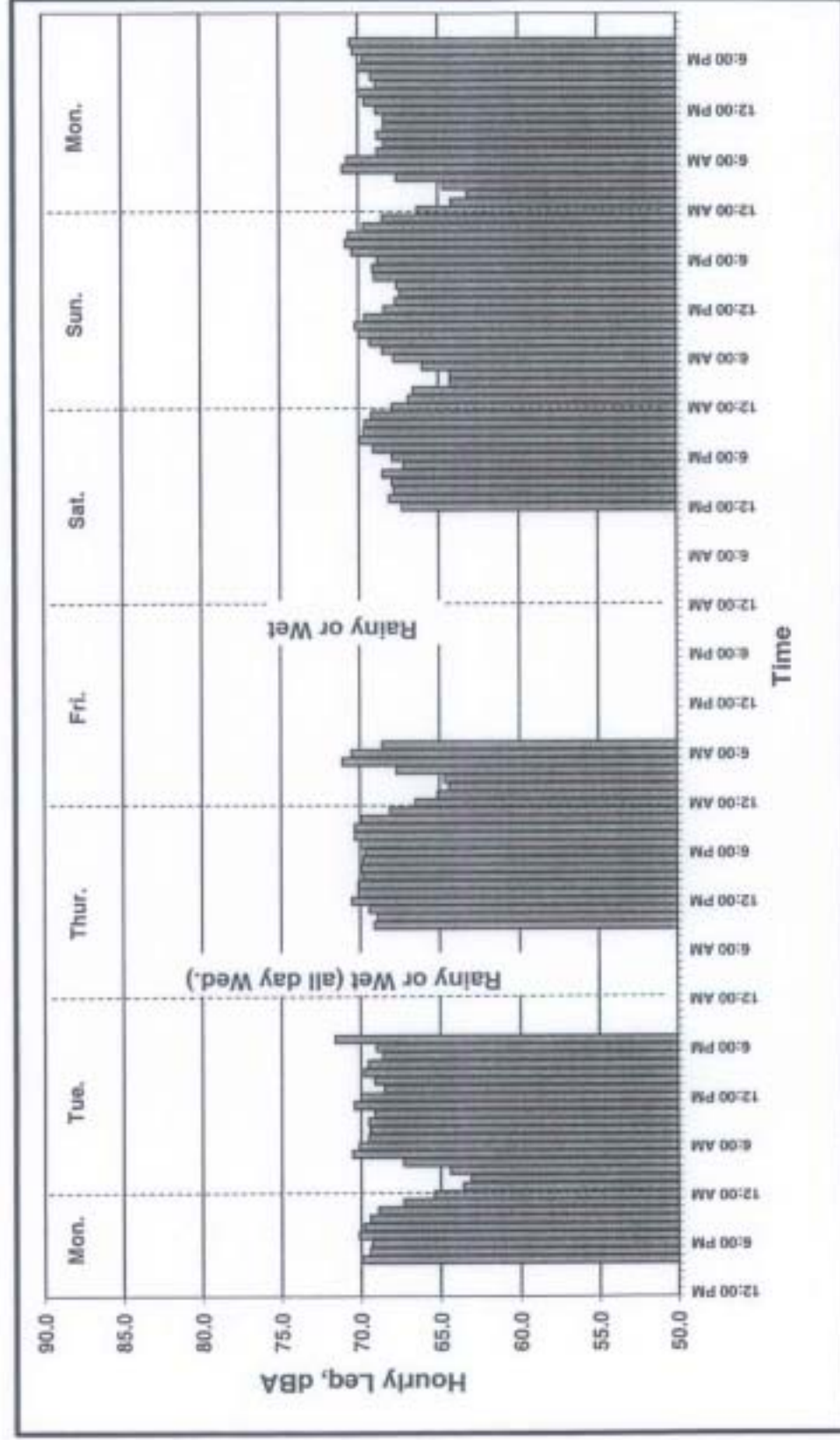
# Hourly Noise Levels, Leq(h)

71.6 dBA

= Highest Measured Level

Location: 7700 Midfield Avenue, Inglewood, CA  
Position: Rear Yard  
Sources: I-405 Highway Traffic  
Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form  
Rain occurred all day Wed, 1/25/05; no data reported.



## Hourly Noise Levels, Leq(h)

**Location:** 7700 Midfield Avenue, Inglewood, CA

**Position:** Rear Yard

**Sources:** I-405 Highway Traffic

**Date:** 1/24 – 1/31

**71.6 dBA**

= Highest Measured Level

**Notes:** See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date:		1/25	1/27	1/28	1/29	1/30	1/31
	Day:	Mon	Tue	Thu	Fri	Sat	Sun	Mon
		Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	65.4	--	66.5	--	67.9	66.3
1:00 - 2:00	am	--	63.6	--	65.1	--	66.9	64.2
2:00 - 3:00	am	--	63.1	--	64.4	--	66.6	63.2
3:00 - 4:00	am	--	64.4	--	64.7	--	64.3	64.7
4:00 - 5:00	am	--	67.3	--	67.7	--	64.3	67.6
5:00 - 6:00	am	--	70.5	--	71.1	--	66.0	71.0
6:00 - 7:00	am	--	70.1	--	70.5	--	67.8	70.7
7:00 - 8:00	am	--	69.5	--	68.6	--	68.5	68.8
8:00 - 9:00	am	--	69.4	--	--	--	69.3	68.4
9:00 - 10:00	am	--	69.5	69.1	--	--	70.0	68.8
10:00 - 11:00	am	--	69.1	68.9	--	--	70.2	68.4
11:00 - 12:00	am	--	70.4	69.4	--	--	69.6	68.4
12:00 - 1:00	pm	--	70.0	70.5	--	67.3	68.4	68.9
1:00 - 2:00	pm	--	68.5	70.1	--	68.1	67.7	69.6
2:00 - 3:00	pm	--	69.1	70.1	--	67.8	67.4	70.0
3:00 - 4:00	pm	--	69.8	69.8	--	67.9	67.6	68.9
4:00 - 5:00	pm	69.9	69.5	69.9	--	68.5	69.0	69.2
5:00 - 6:00	pm	69.4	68.6	69.8	--	67.2	69.1	70.0
6:00 - 7:00	pm	69.3	69.0	69.7	--	67.9	68.8	69.7
7:00 - 8:00	pm	70.1	71.6	70.0	--	69.1	70.4	70.3
8:00 - 9:00	pm	69.8	--	70.3	--	69.9	70.8	70.5
9:00 - 10:00	pm	69.4	--	70.3	--	69.7	70.6	--
10:00 - 11:00	pm	68.9	--	69.9	--	69.6	69.7	--
11:00 - 12:00	pm	67.3	--	68.1	--	69.2	68.5	--

-- = Nighttime period

-- = No measurement, or rainy or wet period

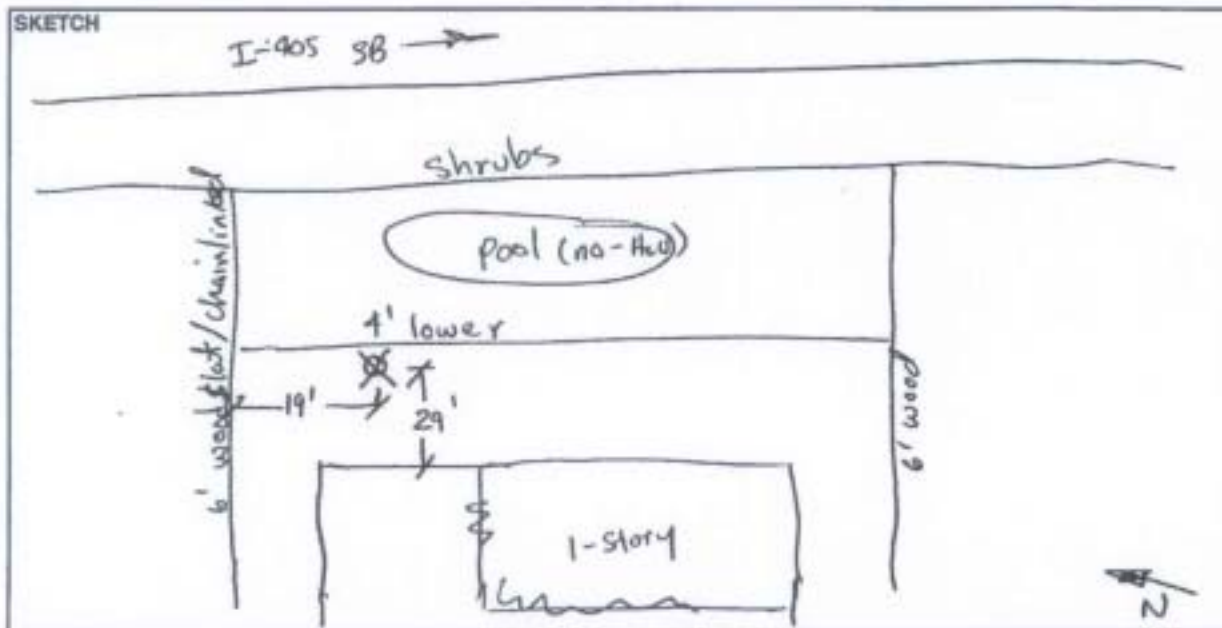
**Bold** exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Joel Vazquez</u>	DATE: 01-24-05
LOCATION: 7700 Midfield Avenue,			SITE NO.: 7700
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input checked="" type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>71.0</u> °F WIND SPEED: <u>0.0</u> MPH TOWARD (DIR): <u>n/a</u> R. HUMIDITY: <u>59</u> %  CAMERA <u>CANON A7S</u> PHOTO NOS. <u>15-22</u>
SERIAL #: <u>0555</u>	SERIAL #: <u>1785</u>	SERIAL #: <u>2771</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114.0</u> / <u>21.2 off</u> After <u>114.0</u> / <u>113.9</u>	TIME: <u>11:58:28</u> <u>1115</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <u>I-405 depressed relative to microphone location</u> <u>covered microphone 1/25 1913 uncovered microphone 1/27 0735</u>
DATE	TIME	
01-24-05		
STOP		
DATE	TIME	



PARSONS



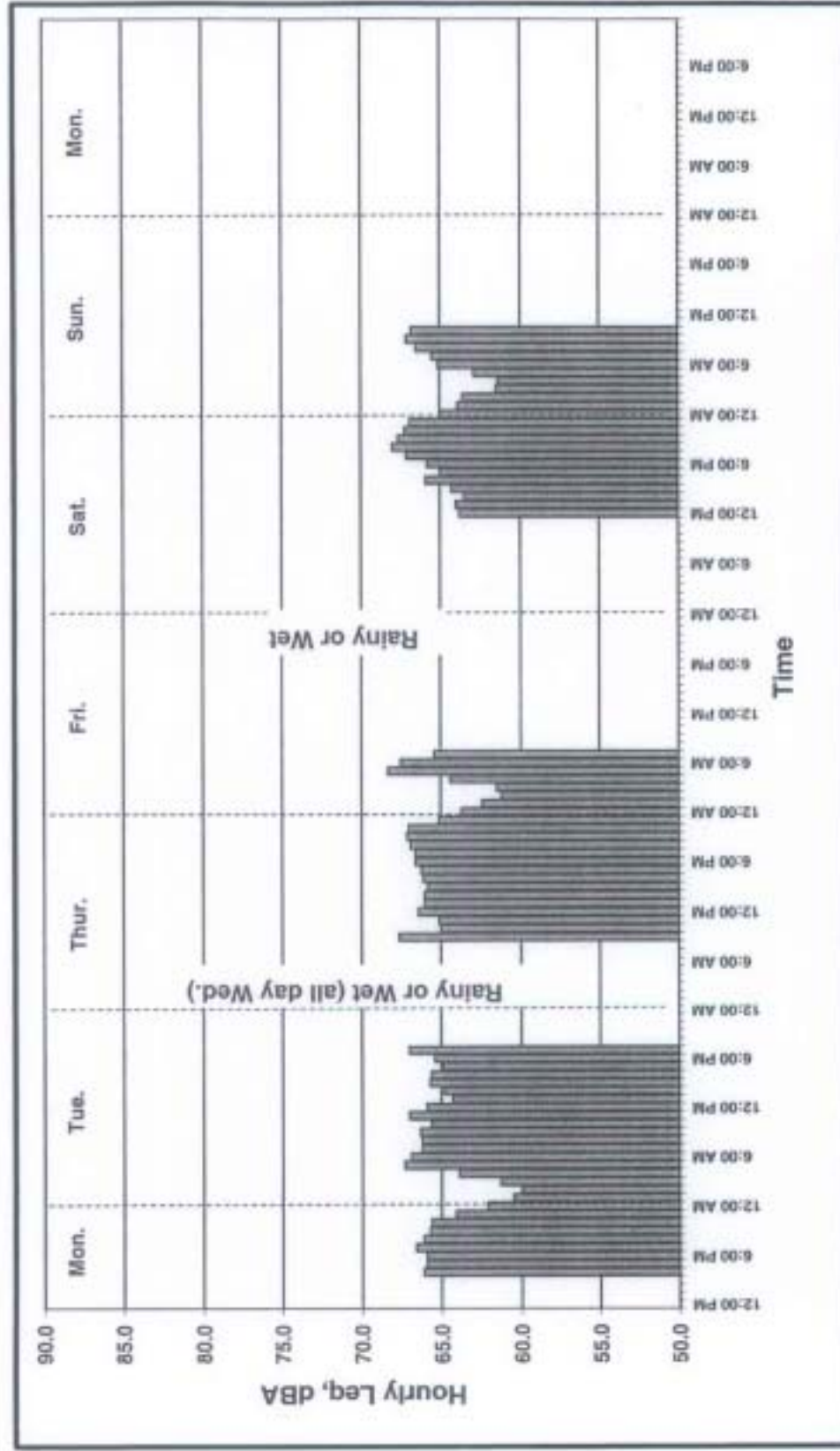
# Hourly Noise Levels, Leq(h)

68.3 dBA

= Highest Measured Level

**Location:** 7706 Midfield Avenue, Inglewood, CA  
**Position:** Rear Yard  
**Sources:** I-405 Highway Traffic  
**Date:** 1/24 – 1/31

**Notes:** See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/26/05; no data reported.  
 A/C power failure on Sunday at 11 am.



## Hourly Noise Levels, Leq(h)

68.3 dBA

= Highest Measured Level

Location: 7706 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Source: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Date: Day:	1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
TIME	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00 am	--	62.1	--	63.7	--	65.0	*
1:00 - 2:00 am	--	60.5	--	62.4	--	63.9	*
2:00 - 3:00 am	--	60.0	--	61.2	--	63.6	*
3:00 - 4:00 am	--	61.3	--	61.5	--	61.5	*
4:00 - 5:00 am	--	63.9	--	64.4	--	61.4	*
5:00 - 6:00 am	--	67.3	--	68.3	--	62.9	*
6:00 - 7:00 am	--	66.9	--	67.5	--	65.1	*
7:00 - 8:00 am	--	66.2	--	65.4	--	65.5	*
8:00 - 9:00 am	--	66.2	--	--	--	66.5	*
9:00 - 10:00 am	--	66.3	67.6	--	--	67.1	*
10:00 - 11:00 am	--	65.6	65.0	--	--	66.8	*
11:00 - 12:00 am	--	67.0	65.1	--	--	*	*
12:00 - 1:00 pm	--	65.9	66.4	--	63.8	*	*
1:00 - 2:00 pm	--	64.3	66.0	--	64.0	*	*
2:00 - 3:00 pm	--	64.8	66.0	--	63.5	*	*
3:00 - 4:00 pm	--	65.7	65.8	--	64.3	*	*
4:00 - 5:00 pm	66.1	65.6	66.1	--	65.9	*	*
5:00 - 6:00 pm	65.9	64.9	66.2	--	65.0	*	*
6:00 - 7:00 pm	65.9	65.4	66.6	--	65.8	*	*
7:00 - 8:00 pm	66.6	67.0	66.6	--	67.1	*	*
8:00 - 9:00 pm	66.1	--	66.9	--	68.0	*	*
9:00 - 10:00 pm	65.7	--	67.1	--	67.6	*	--
10:00 - 11:00 pm	65.6	--	67.0	--	67.2	*	--
11:00 - 12:00 pm	64.1	--	65.1	--	66.9	*	--

= Nighttime period

-- = No measurement, or rainy or wet period

\* = A/C power failure on Sunday at 11 am

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: ET	DATE: 01-24-05
LOCATION: 7706 Midfield Avenue,			SITE NO.: 7706
SOUND LEVEL METER: <input type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input checked="" type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input checked="" type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>64</u> °F WIND SPEED: <u>1.0</u> MPH TOWARD (DIR): _____ R. HUMIDITY: <u>78</u> %  CAMERA _____ PHOTO NOs. _____
SERIAL #: <u>0236</u>	SERIAL #: <u>47451</u>	SERIAL #: <u>3203</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input      Reading Before <u>114.0</u> / <u>114.0</u> After <u>114.0</u> / <u>113.8</u>	TIME: <u>10:50A</u> <u>19:05</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES:
DATE	TIME	
01-24-05	11:00A	
STOP		
DATE	TIME	

SKETCH

7706

PARSONS

## Hourly Noise Levels, Leq(h)

68.2 dBA = Highest Measured Level

Location: 7710 Midfield Avenue, Inglewood, CA

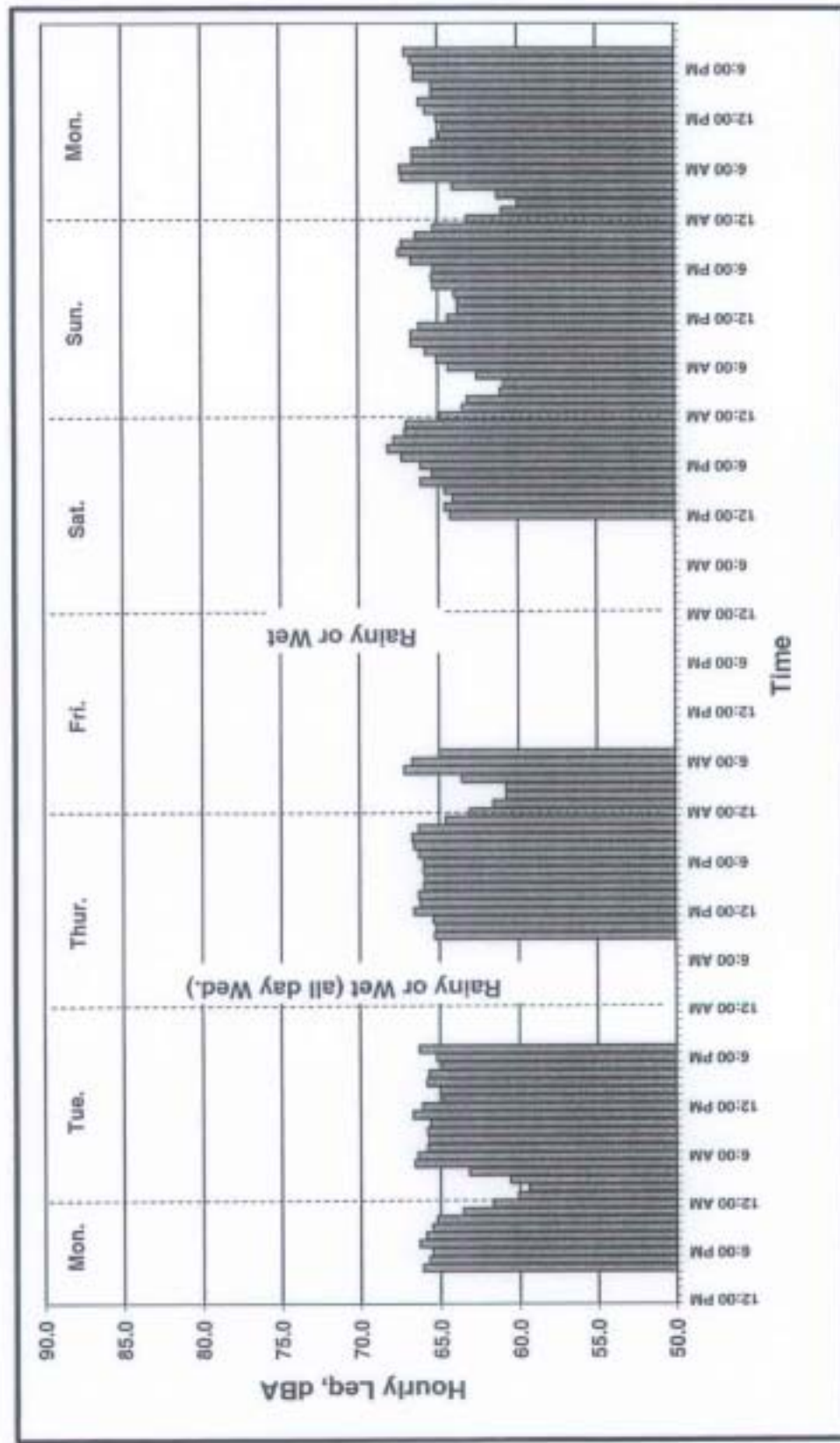
Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.





## Hourly Noise Levels, Leq(h)

68.2 dBA = Highest Measured Level

Location: 7710 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/25/05; no data reported.

TIME	Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
	Day:		Mon	Tue	Thu	Fri	Sat	Sun	Mon
			Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	--	--	61.7	--	63.1	--	64.9	63.2
1:00 - 2:00	am	--	--	60.1	--	61.6	--	63.5	61.0
2:00 - 3:00	am	--	--	59.4	--	60.8	--	63.2	60.0
3:00 - 4:00	am	--	--	60.6	--	60.8	--	61.1	61.3
4:00 - 5:00	am	--	--	63.2	--	63.6	--	60.9	64.1
5:00 - 6:00	am	--	--	66.6	--	67.2	--	62.6	67.3
6:00 - 7:00	am	--	--	66.4	--	66.7	--	64.4	67.4
7:00 - 8:00	am	--	--	65.8	--	65.0	--	65.1	66.6
8:00 - 9:00	am	--	--	65.7	--	--	--	65.8	66.6
9:00 - 10:00	am	--	--	65.8	65.3	--	--	66.7	65.4
10:00 - 11:00	am	--	--	65.6	65.2	--	--	66.7	64.9
11:00 - 12:00	am	--	--	66.7	65.4	--	--	66.2	64.7
12:00 - 1:00	pm	--	--	66.1	66.6	--	64.3	64.4	65.1
1:00 - 2:00	pm	--	--	64.8	66.2	--	64.6	63.8	65.8
2:00 - 3:00	pm	--	--	65.0	66.3	--	64.1	63.8	66.2
3:00 - 4:00	pm	--	--	65.8	66.0	--	64.6	64.0	65.4
4:00 - 5:00	pm	66.1	--	65.7	65.9	--	66.1	65.3	65.4
5:00 - 6:00	pm	65.7	--	64.8	66.0	--	65.4	65.4	66.5
6:00 - 7:00	pm	65.5	--	65.2	66.0	--	66.1	65.3	66.5
7:00 - 8:00	pm	66.3	--	66.3	66.3	--	67.3	66.7	66.7
8:00 - 9:00	pm	65.9	--	--	66.6	--	68.2	67.5	67.1
9:00 - 10:00	pm	65.5	--	--	66.7	--	67.8	67.3	--
10:00 - 11:00	pm	65.2	--	66.3	66.3	--	67.1	66.4	--
11:00 - 12:00	pm	63.6	--	64.6	64.6	--	67.0	65.3	--

 = Nighttime period

-- = No measurement, or rainy or wet period

 = Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Joel Vazquez</u>	DATE: 01-24-05
LOCATION: 7710 Midfield Avenue,			SITE NO.: 7710
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>65.3</u> °F WIND SPEED: <u>0</u> MPH TOWARD (DIR): <u>NA</u> R. HUMIDITY: <u>73</u> %  CAMERA <u>CANON A75</u> ET PHOTO NOS. <u>9-14</u> #6
SERIAL #: <u>0158</u>	SERIAL #: <u>2145280</u>	SERIAL #: <u>0225</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114.0</u> / <u>9.1 off</u> After <u>114.0</u> / <u>113.8</u>	TIME: <u>11:24:00</u> <u>1145</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <u>Sprinkler system non-operational for years.</u> <u>covered microphone 1/25 1409 uncovered microphone 1/27 0900</u>
DATE	TIME	
01-24-05	11:24	
STOP		
DATE	TIME	

SKETCH

I-405 SB →

PARSONS

## Hourly Noise Levels, Leq(h)

68.8 dBA

= Highest Measured Level

Location: 7716 Midfield Avenue, Inglewood, CA

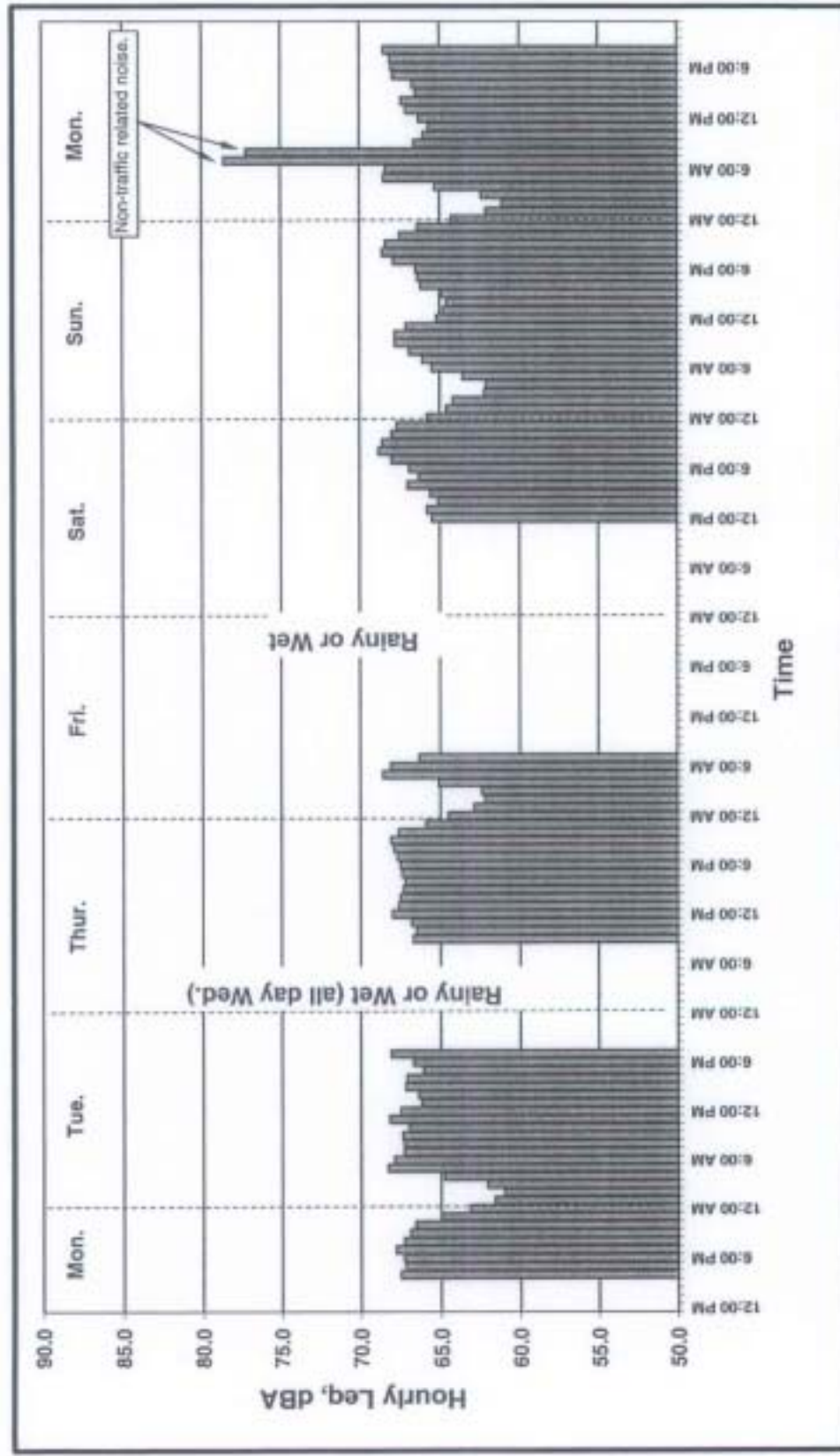
Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/25/05; no data reported.





## Hourly Noise Levels, Leq(h)

68.8 dBA = Highest Measured Level

Location: 7716 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Source: I-405 Highway Traffic

Date: 1/24 - 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Date: Day:	1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
TIME	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00 am	--	63.2	--	64.5	--	65.8	64.3
1:00 - 2:00 am	--	61.6	--	62.9	--	64.6	62.1
2:00 - 3:00 am	--	61.0	--	62.2	--	64.2	61.1
3:00 - 4:00 am	--	62.1	--	62.4	--	62.2	62.4
4:00 - 5:00 am	--	64.8	--	65.1	--	62.1	65.3
5:00 - 6:00 am	--	68.3	--	68.6	--	63.6	68.5
6:00 - 7:00 am	--	67.9	--	68.1	--	65.5	68.4
7:00 - 8:00 am	--	67.3	--	66.3	--	66.1	78.6*
8:00 - 9:00 am	--	67.3	--	--	--	68.9	77.2*
9:00 - 10:00 am	--	67.4	66.7	--	--	67.8	66.6
10:00 - 11:00 am	--	67.0	66.5	--	--	67.9	66.0
11:00 - 12:00 am	--	68.2	66.8	--	--	67.1	65.7
12:00 - 1:00 pm	--	67.5	68.0	--	65.5	65.2	66.3
1:00 - 2:00 pm	--	66.2	67.6	--	65.8	64.8	67.1
2:00 - 3:00 pm	--	66.4	67.5	--	65.1	64.6	67.4
3:00 - 4:00 pm	--	67.2	67.3	--	65.6	64.9	66.5
4:00 - 5:00 pm	67.5	67.1	67.2	--	67.0	66.2	66.7
5:00 - 6:00 pm	67.2	66.1	67.4	--	66.3	66.4	67.9
6:00 - 7:00 pm	67.3	66.7	67.5	--	66.9	66.5	68.0
7:00 - 8:00 pm	67.8	68.1	67.7	--	68.0	67.9	68.1
8:00 - 9:00 pm	67.3	--	67.9	--	68.8	68.6	68.5
9:00 - 10:00 pm	66.9	--	68.1	--	68.6	68.4	--
10:00 - 11:00 pm	66.6	--	67.6	--	68.0	67.5	--
11:00 - 12:00 pm	65.0	--	65.9	--	67.7	66.4	--

Nighttime period

-- = No measurement, or rainy or wet period

\* = Non-traffic related noise

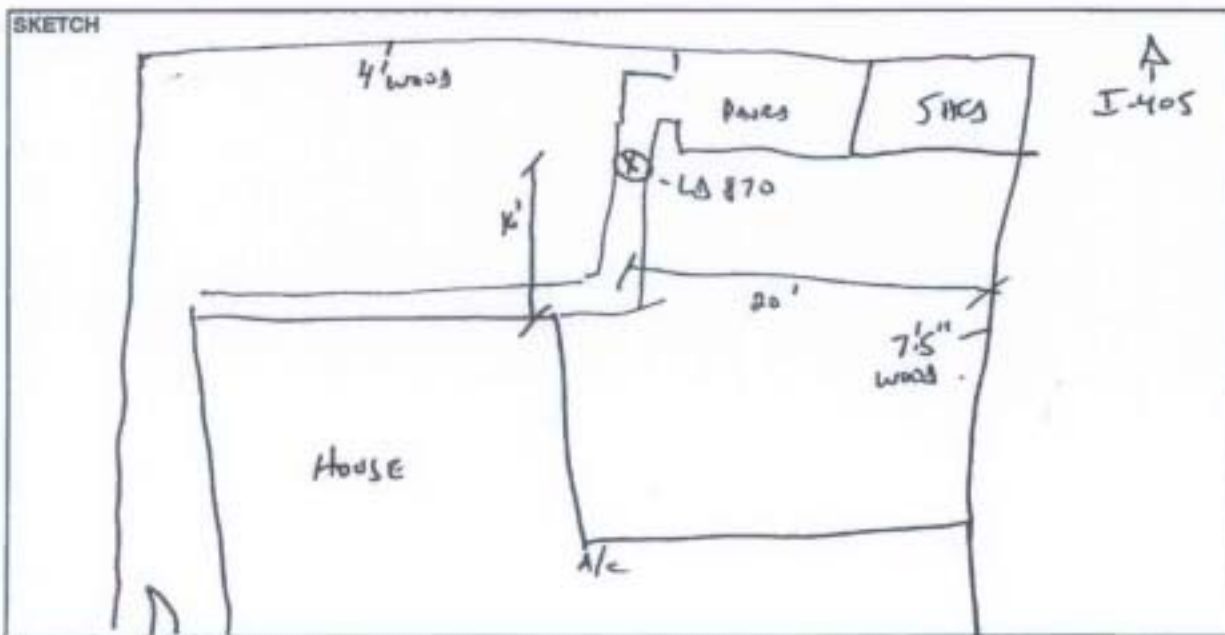
Bold exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <i>Steve Volaric</i>	DATE: 01-24-05
LOCATION: 7716 Midfield Avenue,			SITE NO.: 7716
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> 900 C	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input checked="" type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>66</u> °F WIND SPEED: <u>1-2</u> MPH TOWARD (DIR): <u>NE</u> R. HUMIDITY: <u>69</u> %  CAMERA _____ PHOTO NOs. <u>7, 8</u>
SERIAL #: <u>1190</u>	SERIAL #: <u>47473</u>	SERIAL #: <u>809</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114.0</u> / <u>114.0</u> After <u>114.0</u> / <u>114.1</u>	TIME: <u>14:55</u> <u>1240 hours</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <i>covered microphone 1/25 1908 uncond microphone 1/27 0750</i>
DATE	TIME	
01-24-05	15:00	
STOP		
DATE	TIME	



## Hourly Noise Levels, Leq(h)

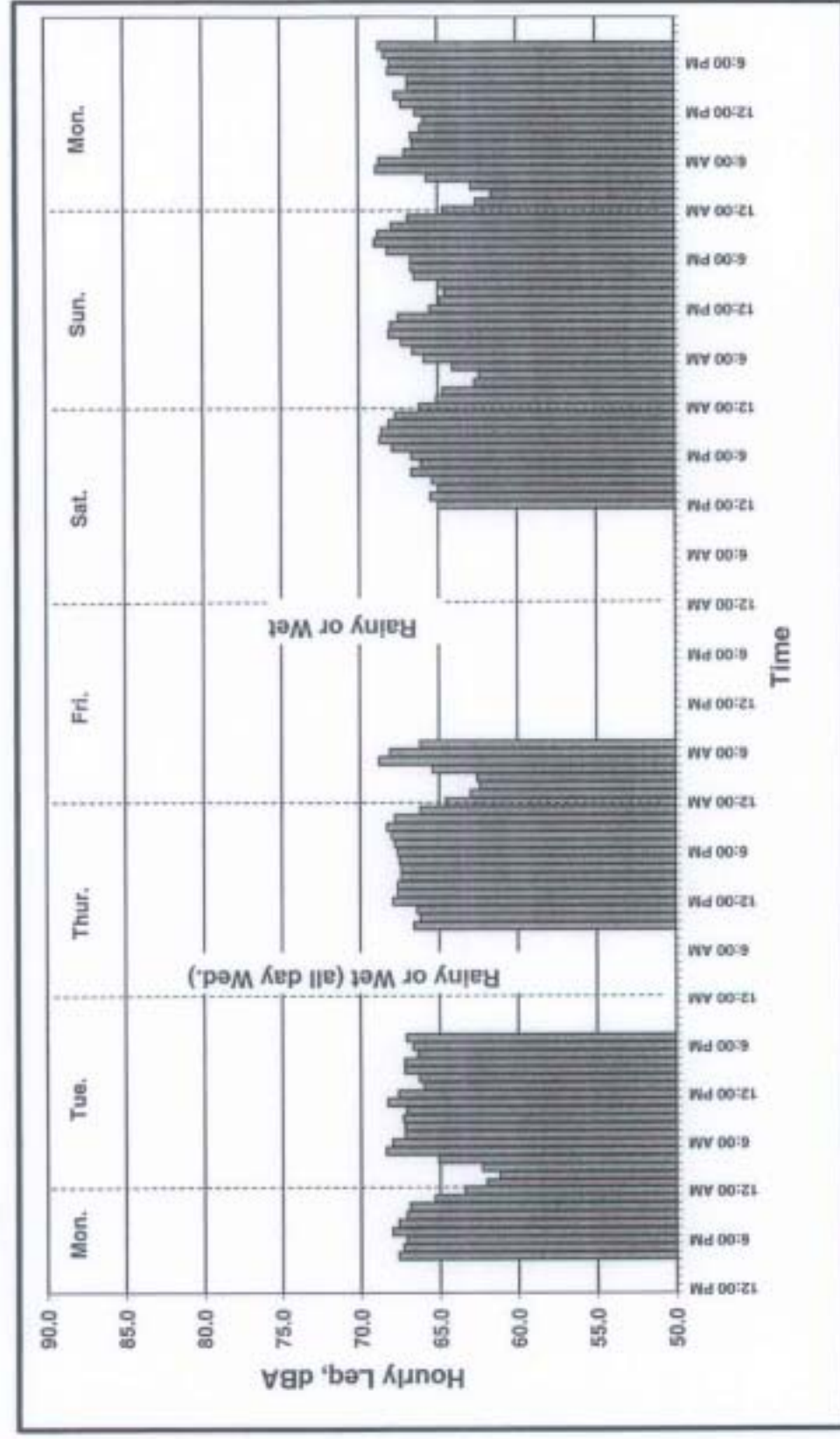
69.0 dBA

= Highest Measured Level

Location: 7722 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.



## Hourly Noise Levels, Leq(h)

69.0 dBA = Highest Measured Level

Location: 7722 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Date: Day:	1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
TIME	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00 am	--	63.4	--	64.6	--	66.2	64.7
1:00 - 2:00 am	--	62.0	--	63.0	--	65.1	62.6
2:00 - 3:00 am	--	61.2	--	62.4	--	64.7	61.6
3:00 - 4:00 am	--	62.3	--	62.6	--	62.7	62.9
4:00 - 5:00 am	--	65.1	--	65.4	--	62.4	65.7
5:00 - 6:00 am	--	68.4	--	68.8	--	64.1	68.9
6:00 - 7:00 am	--	68.0	--	68.1	--	65.9	68.7
7:00 - 8:00 am	--	67.2	--	66.2	--	66.6	67.1
8:00 - 9:00 am	--	67.2	--	--	--	67.3	66.6
9:00 - 10:00 am	--	67.3	66.6	--	--	68.1	66.7
10:00 - 11:00 am	--	67.1	66.2	--	--	68.0	66.1
11:00 - 12:00 am	--	68.3	66.4	--	--	67.5	65.9
12:00 - 1:00 pm	--	67.6	67.9	--	65.0	65.5	66.4
1:00 - 2:00 pm	--	66.0	67.6	--	65.5	64.9	67.3
2:00 - 3:00 pm	--	66.3	67.6	--	65.0	64.6	67.7
3:00 - 4:00 pm	--	67.2	67.4	--	65.4	65.0	66.9
4:00 - 5:00 pm	67.6	67.2	67.4	--	66.7	66.5	66.9
5:00 - 6:00 pm	67.3	66.4	67.5	--	66.1	66.7	68.1
6:00 - 7:00 pm	67.1	66.7	67.6	--	66.7	66.7	68.0
7:00 - 8:00 pm	68.0	67.1	67.8	--	67.9	68.2	68.4
8:00 - 9:00 pm	67.6	--	68.0	--	68.7	69.0	68.7
9:00 - 10:00 pm	67.1	--	68.3	--	68.6	68.8	--
10:00 - 11:00 pm	66.9	--	67.6	--	68.1	67.9	--
11:00 - 12:00 pm	65.3	--	66.2	--	67.7	66.9	--

= Nighttime period

-- = No measurement, or rainy or wet period

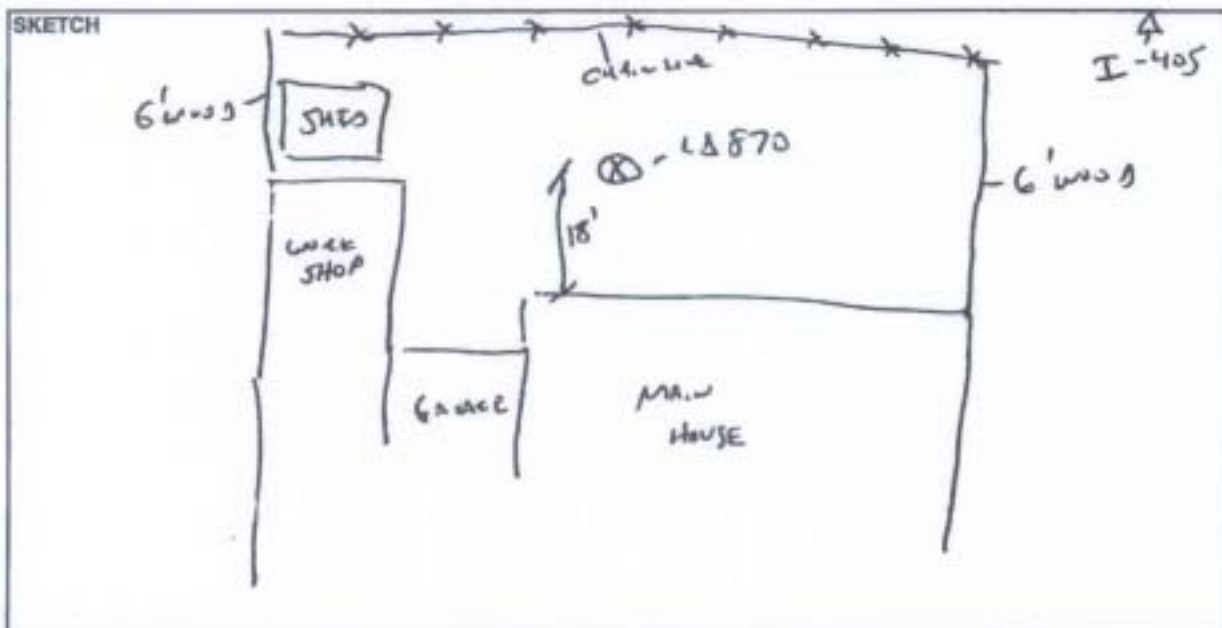
Bold exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: Steve Volaric	DATE: 01-24-05
LOCATION: 7722 Midfield Avenue,			SITE NO.: 7722
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input checked="" type="checkbox"/> 900C	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>67</u> °F WIND SPEED: _____ MPH TOWARD (DIR): _____ R. HUMIDITY: <u>63</u> %  CAMERA <u>CANON A7S</u> PHOTO NOs. _____
SERIAL #: <u>144</u>	SERIAL #: <u>45108</u>	SERIAL #: <u>3819</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114</u> / <u>114</u> After <u>114</u> / <u>114.1</u>	TIME: <u>15:53</u> <u>1210</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS Leq, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: <u>covered microphone 2007</u> <u>uncovered microphone 1/27 0758</u>
DATE	TIME	
01-24-05	16:00	
STOP		
DATE	TIME	



PARSONS



## Hourly Noise Levels, Leq(h)

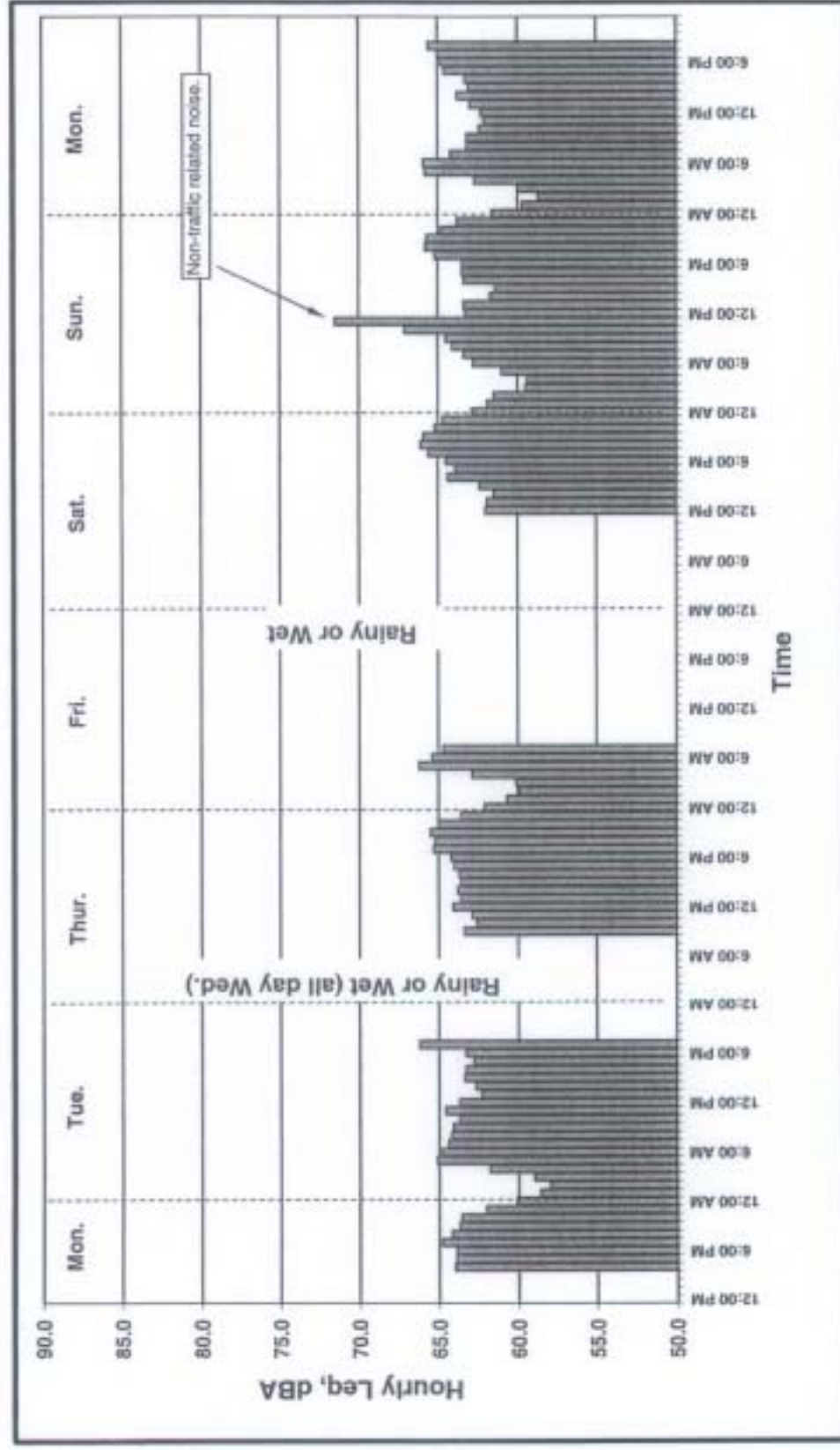
67.1 dBA

= Highest Measured Level

Location: 7726 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.



## Hourly Noise Levels, Leq(h)

67.1 dBA = Highest Measured Level

Location: 7726 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Date: Day:	1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
TIME	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00 am	--	60.1	--	62.1	--	62.9	61.6
1:00 - 2:00 am	--	58.6	--	60.7	--	61.9	59.7
2:00 - 3:00 am	--	58.0	--	59.9	--	61.5	58.7
3:00 - 4:00 am	--	59.0	--	60.1	--	59.5	60.0
4:00 - 5:00 am	--	61.8	--	62.9	--	59.4	62.7
5:00 - 6:00 am	--	65.1	--	66.2	--	61.0	65.8
6:00 - 7:00 am	--	64.8	--	65.4	--	62.6	65.9
7:00 - 8:00 am	--	64.4	--	64.7	--	63.4	64.2
8:00 - 9:00 am	--	64.2	--	--	--	64.1	63.2
9:00 - 10:00 am	--	64.1	63.4	--	--	64.5	63.2
10:00 - 11:00 am	--	63.7	62.6	--	--	67.1	62.4
11:00 - 12:00 am	--	64.6	62.9	--	--	71.5*	62.1
12:00 - 1:00 pm	--	63.7	64.1	--	--	63.3	62.3
1:00 - 2:00 pm	--	62.3	63.6	--	62.0	63.4	63.0
2:00 - 3:00 pm	--	62.7	63.8	--	61.5	61.7	63.8
3:00 - 4:00 pm	--	63.4	63.6	--	62.4	61.4	63.1
4:00 - 5:00 pm	64.0	63.3	63.7	--	64.4	63.4	63.3
5:00 - 6:00 pm	63.9	62.8	64.0	--	63.9	63.5	64.6
6:00 - 7:00 pm	63.9	63.3	64.2	--	64.5	63.5	64.8
7:00 - 8:00 pm	64.8	66.2	65.3	--	65.6	65.2	65.0
8:00 - 9:00 pm	64.2	--	65.2	--	66.1	65.8	65.6
9:00 - 10:00 pm	63.7	--	65.5	--	65.9	65.7	--
10:00 - 11:00 pm	63.6	--	65.0	--	65.2	64.8	--
11:00 - 12:00 pm	62.0	--	63.6	--	64.7	63.8	--

= Nighttime period

-- = No measurement, or rainy or wet period

\* = Non-traffic related noise.

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: Steve Volaric	DATE: 01-24-05
LOCATION: 7726 Midfield Avenue,			SITE NO.: 7726
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input checked="" type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>67</u> °F WIND SPEED: _____ MPH TOWARD (DIR): _____ R. HUMIDITY: <u>54</u> %  CAMERA _____ PHOTO NOs. <u># 9, 10</u>
SERIAL #: <u>1047</u>	SERIAL #: <u>47475</u>	SERIAL #: <u>3915</u>	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114</u> / <u>114</u> After <u>114</u> / <u>113.9</u>	TIME: <u>15:30</u> <u>1220</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES:  Ground microphone 1/25 1902 increased microphone: distance (change)
DATE	TIME	
01-24-05	<u>15:38</u>	
STOP		
DATE	TIME	

SKETCH

PARSONS



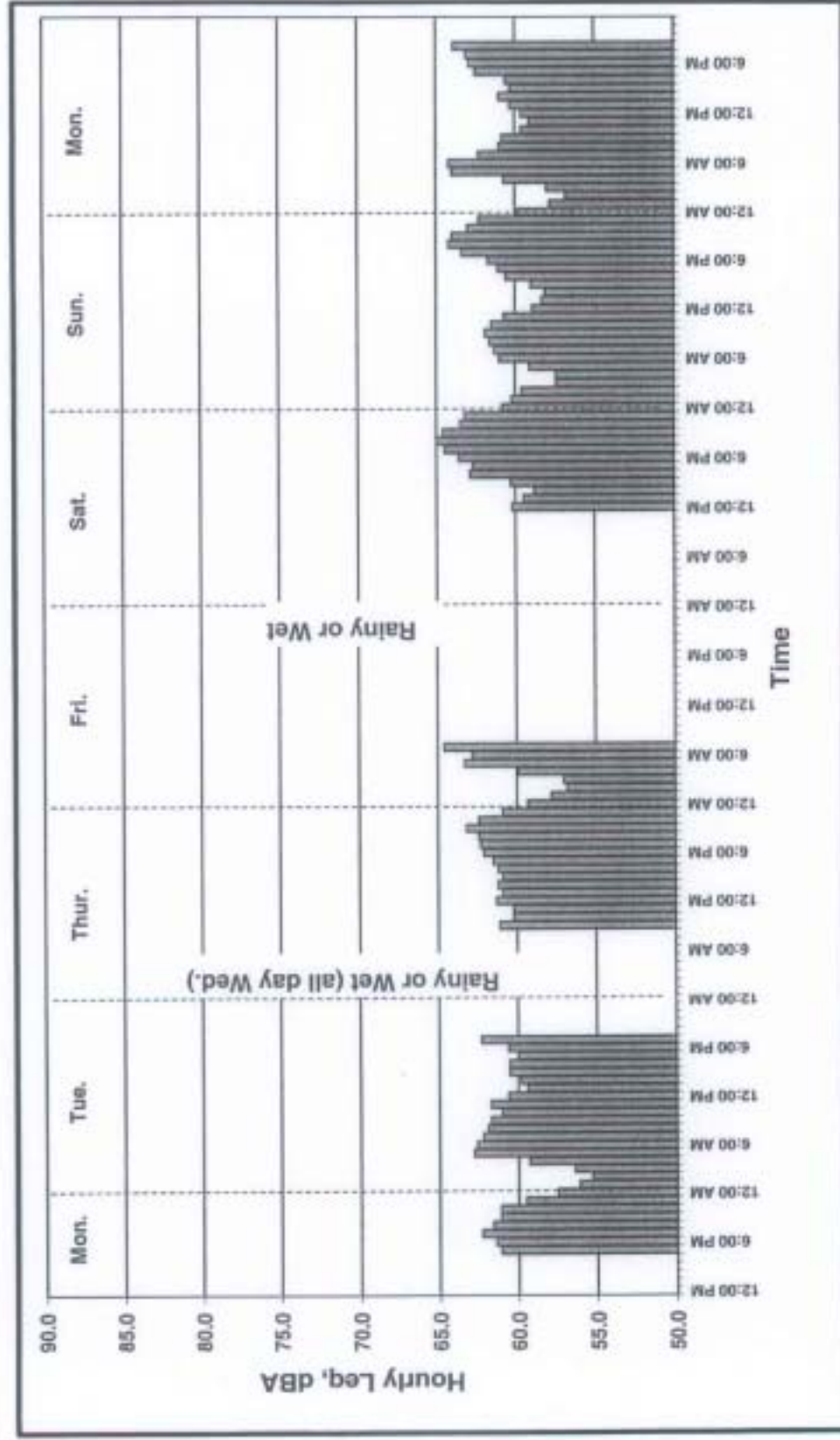
## Hourly Noise Levels, Leq(h)

65.0 dBA

■ Highest Measured Level

Location: 7732 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/26/05; no data reported.





## Hourly Noise Levels, Leq(h)

65.0 dBA = Highest Measured Level

Location: 7732 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Date:		1/24	1/25	1/27	1/28	1/29	1/30	1/31
Day:	Mon	Tue	Thu	Fri	Sat	Sun	Mon	
TIME	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00	am	57.5	--	59.3	--	60.8	59.8	
1:00 - 2:00	am	56.1	--	57.8	--	60.2	57.8	
2:00 - 3:00	am	55.3	--	56.8	--	59.6	56.8	
3:00 - 4:00	am	56.4	--	57.0	--	57.4	58.0	
4:00 - 5:00	am	59.3	--	59.9	--	57.4	60.7	
5:00 - 6:00	am	62.8	--	63.3	--	59.1	64.0	
6:00 - 7:00	am	62.6	--	62.8	--	61.0	64.2	
7:00 - 8:00	am	62.2	--	64.6	--	61.3	62.3	
8:00 - 9:00	am	61.9	--	--	--	61.6	61.0	
9:00 - 10:00	am	61.7	61.1	--	--	61.9	60.8	
10:00 - 11:00	am	61.0	60.2	--	--	61.5	59.6	
11:00 - 12:00	am	61.7	60.2	--	--	60.7	59.1	
12:00 - 1:00	pm	60.6	61.3	--	60.2	58.9	59.6	
1:00 - 2:00	pm	59.4	60.9	--	59.5	58.3	60.3	
2:00 - 3:00	pm	59.8	61.2	--	58.8	58.1	61.0	
3:00 - 4:00	pm	60.5	60.9	--	60.3	59.0	60.3	
4:00 - 5:00	pm	60.5	61.2	--	62.9	60.6	60.6	
5:00 - 6:00	pm	61.1	61.5	--	62.7	61.1	62.5	
6:00 - 7:00	pm	61.4	62.1	--	63.6	61.7	62.9	
7:00 - 8:00	pm	62.3	62.3	--	64.5	63.4	63.1	
8:00 - 9:00	pm	61.6	62.4	--	65.0	64.2	63.9	
9:00 - 10:00	pm	61.1	63.2	--	64.6	64.0	--	
10:00 - 11:00	pm	61.1	62.4	--	63.5	63.0	--	
11:00 - 12:00	pm	59.5	60.9	--	63.2	62.3	--	

Nighttime period

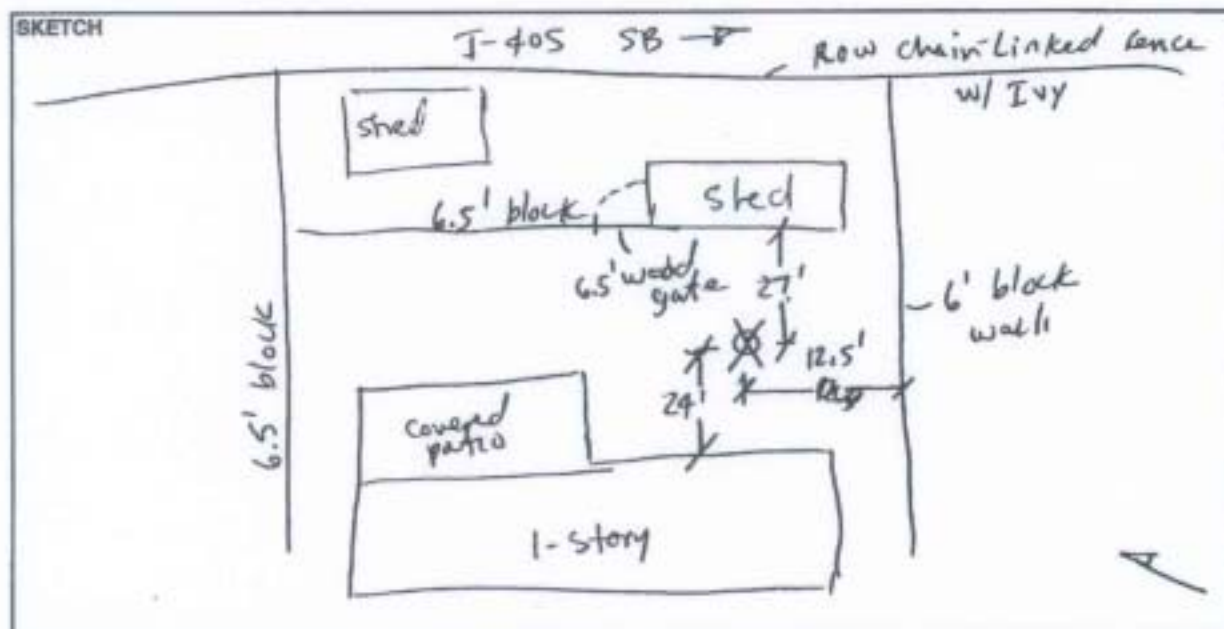
-- = No measurement, or rainy or wet period

Bold exceeds extraordinary abatement criteria

## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Joel Varquez</u>	DATE: 01-24-05									
LOCATION: 7732 Midfield Avenue,			SITE NO.: 7732									
SOUND LEVEL METER: <input checked="" type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input checked="" type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>63.3</u> °F WIND SPEED: <u>0.5</u> MPH TOWARD (DIR): <u>NE</u> R. HUMIDITY: <u>75</u> %  CAMERA <u>CANON A75</u> PHOTO NOs. _____									
SERIAL #: <u>81392</u>	SERIAL #: <u>49492</u>	SERIAL #: <u>3753</u>										
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: <table border="1"> <thead> <tr> <th></th> <th>Input</th> <th>Reading</th> </tr> </thead> <tbody> <tr> <td>Before</td> <td><u>114.0</u></td> <td><u>123.0</u></td> </tr> <tr> <td>After</td> <td><u>114</u></td> <td><u>114.1</u></td> </tr> </tbody> </table>		Input	Reading	Before	<u>114.0</u>	<u>123.0</u>	After	<u>114</u>	<u>114.1</u>	TIME: <u>16:25:49</u> <u>1230</u>	
	Input	Reading										
Before	<u>114.0</u>	<u>123.0</u>										
After	<u>114</u>	<u>114.1</u>										
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX												

START		NOTES: <u>over cast skies</u> <u>covered microphone 1/25 1902 uncovered microphone 1:00</u>
DATE	TIME	
01-24-05	16:45:25	
STOP		
DATE	TIME	



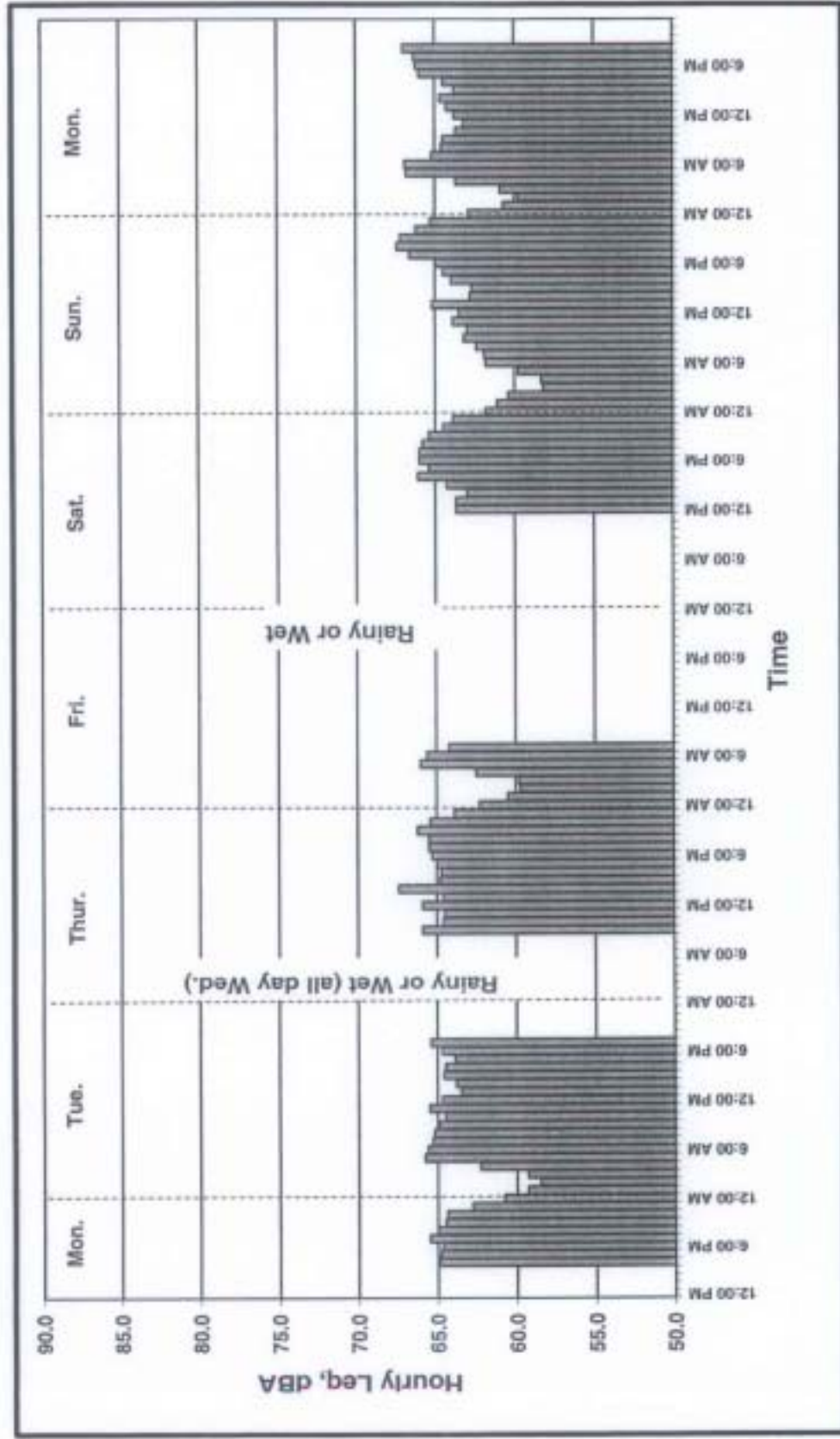
# Hourly Noise Levels, Leq(h)

67.4 dBA

= Highest Measured Level

**Location:** 7735 Midfield Avenue, Inglewood, CA  
**Position:** Rear Yard  
**Sources:** I-405 Highway Traffic  
**Date:** 1/24 – 1/31

**Notes:** See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/25/05; no data reported.





## Hourly Noise Levels, Leq(h)

Location: 7736 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

67.4 dBA

= Highest Measured Level

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

TIME	Date:		1/24		1/25		1/27		1/28		1/29		1/30		1/31	
	Day:		Mon	Leq(h) dBA	Tue	Leq(h) dBA	Thu	Leq(h) dBA	Fri	Leq(h) dBA	Sat	Leq(h) dBA	Sun	Leq(h) dBA	Mon	Leq(h) dBA
12:00 - 1:00	am		--		60.8	--	--		62.3	--	--		61.8		62.9	
1:00 - 2:00	am		--		59.3	--	--		60.5	--	--		61.1		60.7	
2:00 - 3:00	am		--		58.5	--	--		59.7	--	--		60.4		59.8	
3:00 - 4:00	am		--		59.3	--	--		59.8	--	--		58.2		60.9	
4:00 - 5:00	am		--		62.3	--	--		62.5	--	--		58.3		63.7	
5:00 - 6:00	am		--		65.8	--	--		66.0	--	--		59.8		66.8	
6:00 - 7:00	am		--		65.8	--	--		65.6	--	--		61.8		66.9	
7:00 - 8:00	am		--		65.3	--	--		64.2	--	--		61.9		65.2	
8:00 - 9:00	am		--		65.2	--	--		--	--	--		62.4		64.6	
9:00 - 10:00	am		--		64.9	65.9	65.9		--	--	--		63.2		64.5	
10:00 - 11:00	am		--		64.5	64.6	64.6		--	--	--		63.0		63.7	
11:00 - 12:00	am		--		65.5	64.5	64.5		--	--	--		63.9		63.2	
12:00 - 1:00	pm		--		64.7	65.9	65.9		--	--	63.7		63.5		63.8	
1:00 - 2:00	pm		--		63.5	64.6	64.6		--	--	63.7		65.2		64.3	
2:00 - 3:00	pm		--		63.8	67.4	67.4		--	--	63.0		62.8		64.7	
3:00 - 4:00	pm		--		64.6	64.8	64.8		--	--	64.3		62.7		63.8	
4:00 - 5:00	pm		64.9		64.5	64.7	64.7		--	--	66.1		64.0		64.5	
5:00 - 6:00	pm		64.8		63.9	65.0	65.0		--	--	65.4		64.5		66.0	
6:00 - 7:00	pm		64.7		64.7	65.3	65.3		--	--	66.0		65.0		66.2	
7:00 - 8:00	pm		65.5		65.4	65.5	65.5		--	--	66.0		66.6		66.3	
8:00 - 9:00	pm		65.0		--	65.5	65.5		--	--	65.8		67.4		67.0	
9:00 - 10:00	pm		64.5		--	66.2	66.2		--	--	65.4		67.2		--	
10:00 - 11:00	pm		64.4		--	65.4	65.4		--	--	64.5		66.2		--	
11:00 - 12:00	pm		62.8		--	63.9	63.9		--	--	63.9		65.3		--	

☐ = Nighttime period

-- = No measurement, or rainy or wet period

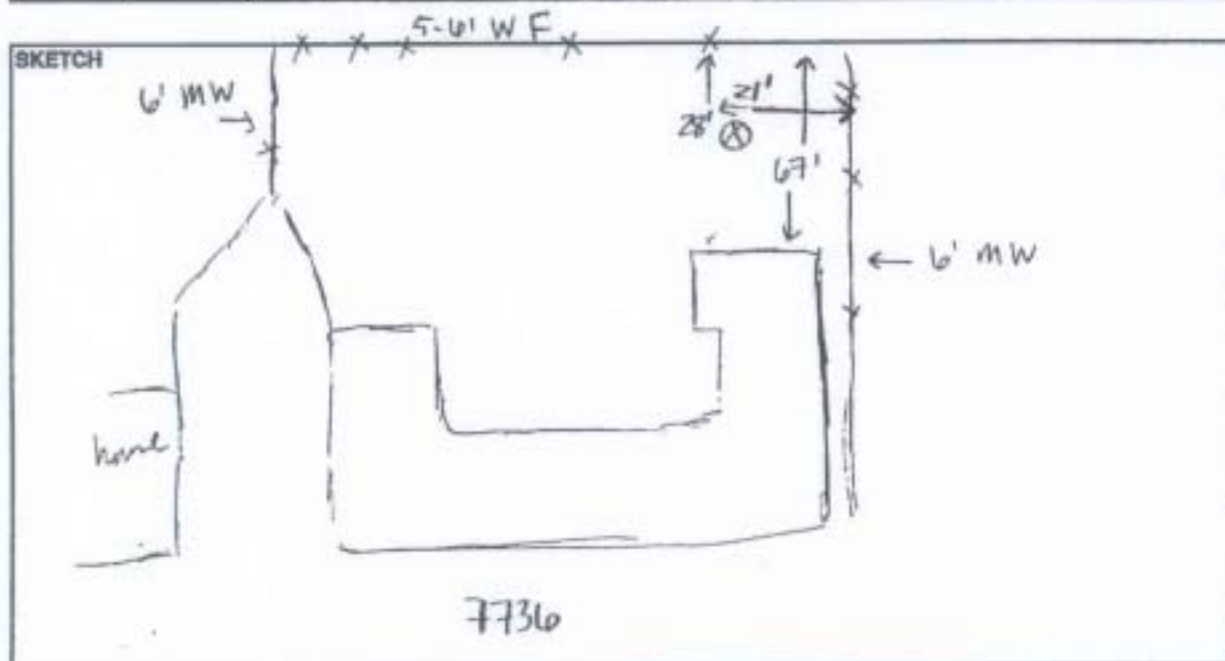
**Bold** exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: ET	DATE: 01-24-05
LOCATION: 7736 Midfield Avenue,			SITE NO.: 7736
SOUND LEVEL METER: <input type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input type="checkbox"/> LD-812 <input checked="" type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input type="checkbox"/> NON-POLAR <input checked="" type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input checked="" type="checkbox"/> LD-900B <input type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input type="checkbox"/> BAT <input checked="" type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: 64 °F WIND SPEED: 0 MPH TOWARD (DIR): R. HUMIDITY: 78 %  CAMERA _____ PHOTO NOs. # 11, 12
SERIAL #: 0427	SERIAL #: 342068	SERIAL #: 3202	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before 114.0 / 114.0 After 114 / 114.0	TIME: 1195 1305	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES: L camera - 2 photos front/rear house. Lower microphone 1/25 1955 unpowered microphone: loose installation: front/backyard cluttered w/ belongings - residents moving at retrieval: yards cleaned up, no residents
DATE	TIME	
01-24-05	12 Noon	
STOP		
DATE	TIME	

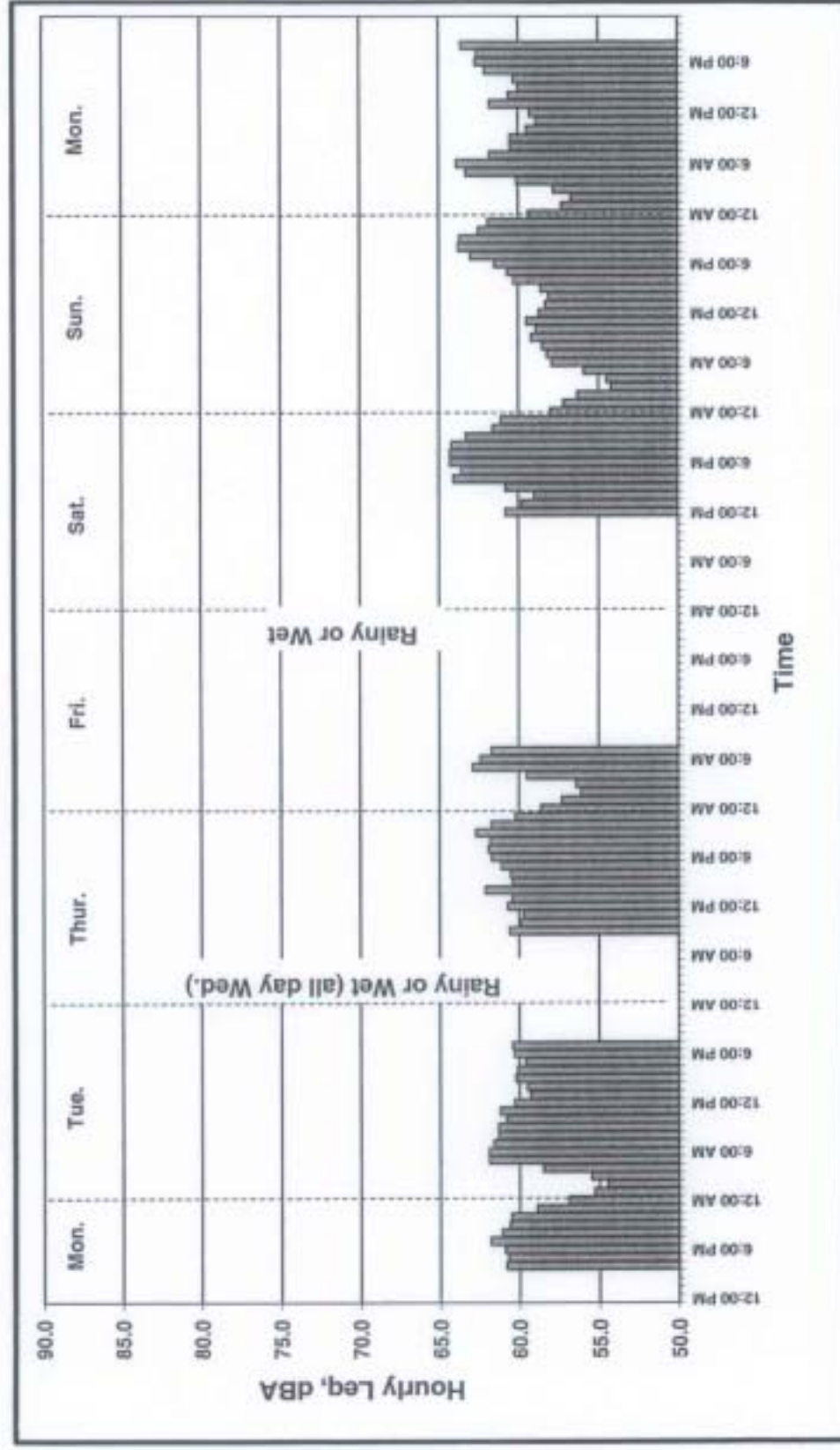


## Hourly Noise Levels, Leq(h)

64.3 dBA = Highest Measured Level

Location: 7742 Midfield Avenue, Inglewood, CA  
 Position: Rear Yard  
 Sources: I-405 Highway Traffic  
 Date: 1/24 - 1/31

Notes: See attached Noise Measurement Form  
 Rain occurred all day Wed, 1/26/05; no data reported.



## Hourly Noise Levels, Leq(h)

64.3 dBA = Highest Measured Level

Location: 7742 Midfield Avenue, Inglewood, CA

Position: Rear Yard

Sources: I-405 Highway Traffic

Date: 1/24 – 1/31

Notes: See attached Noise Measurement Form

Rain occurred all day Wed, 1/26/05; no data reported.

Date: Day:	1/24 Mon	1/25 Tue	1/27 Thu	1/28 Fri	1/29 Sat	1/30 Sun	1/31 Mon
TIME	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA	Leq(h) dBA
12:00 - 1:00 am	--	55.9	--	58.6	--	58.0	59.4
1:00 - 2:00 am	--	55.3	--	57.3	--	57.2	57.3
2:00 - 3:00 am	--	54.5	--	56.1	--	56.3	56.7
3:00 - 4:00 am	--	55.5	--	56.4	--	54.2	57.8
4:00 - 5:00 am	--	58.5	--	59.5	--	54.5	60.1
5:00 - 6:00 am	--	61.9	--	62.9	--	55.9	63.3
6:00 - 7:00 am	--	61.9	--	62.4	--	57.9	63.9
7:00 - 8:00 am	--	61.6	--	61.7	--	58.2	61.8
8:00 - 9:00 am	--	61.3	--	--	--	58.5	60.5
9:00 - 10:00 am	--	61.3	60.6	--	--	59.2	60.5
10:00 - 11:00 am	--	60.8	59.9	--	--	58.9	59.5
11:00 - 12:00 am	--	61.2	59.7	--	--	59.5	58.9
12:00 - 1:00 pm	--	60.3	60.7	--	60.8	58.7	59.3
1:00 - 2:00 pm	--	59.3	60.4	--	59.8	58.3	61.8
2:00 - 3:00 pm	--	59.5	62.1	--	59.0	58.1	60.6
3:00 - 4:00 pm	--	60.2	60.4	--	60.8	58.6	60.0
4:00 - 5:00 pm	60.8	60.1	60.5	--	64.1	60.3	60.3
5:00 - 6:00 pm	60.7	59.6	61.1	--	63.6	60.7	62.1
6:00 - 7:00 pm	60.9	60.3	61.7	--	64.3	61.5	62.7
7:00 - 8:00 pm	61.8	60.4	61.9	--	64.3	63.0	62.6
8:00 - 9:00 pm	61.1	--	61.8	--	64.2	63.8	63.6
9:00 - 10:00 pm	60.6	--	62.7	--	63.3	63.7	--
10:00 - 11:00 pm	60.5	--	61.7	--	61.6	62.5	--
11:00 - 12:00 pm	58.9	--	60.2	--	61.1	61.9	--

Nighttime period

-- = No measurement, or rainy or wet period

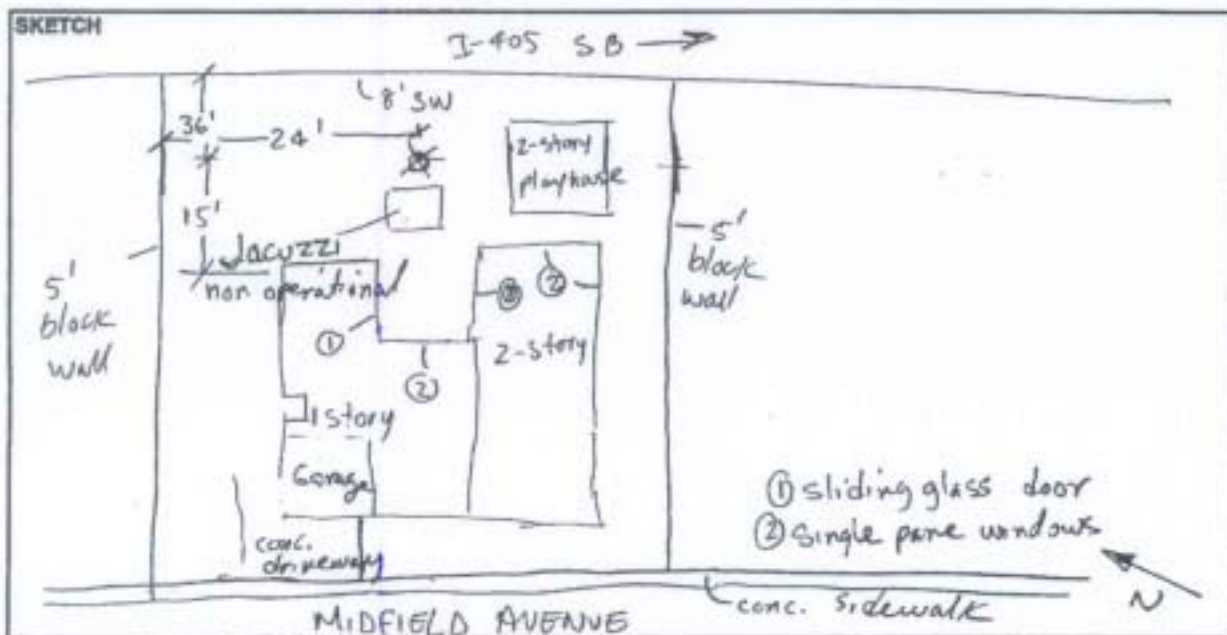
Bold exceeds extraordinary abatement criteria



## NOISE MEASUREMENT FORM

PROJECT: Building Acoustical Study for Houses Near I-405 in the City of Inglewood, CA		ENGINEER: <u>Jed Naeve</u>	DATE: 01-24-05
LOCATION: 7742 Midfield Avenue,			SITE NO.: 7742
SOUND LEVEL METER: <input type="checkbox"/> LD-870 <input type="checkbox"/> LD-820 <input type="checkbox"/> NL-31 <input checked="" type="checkbox"/> LD-812 <input type="checkbox"/> LD-2900 <input type="checkbox"/> _____	MICROPHONE: <input checked="" type="checkbox"/> NON-POLAR <input type="checkbox"/> POLARIZED 1/2-INCH RANDOM INCIDENCE W/ WIND SCREEN	PRE AMP: <input type="checkbox"/> LD-900B <input checked="" type="checkbox"/> LD-828 <input type="checkbox"/> _____	NOTES:  SYSTEM PWR: <input checked="" type="checkbox"/> BAT <input type="checkbox"/> AC  (OBSERVATIONS AT START OF MEAS.) TEMP: <u>59.2</u> °F WIND SPEED: <u>1.2</u> MPH TOWARD (DIR): <u>NE</u> REL. HUMIDITY: <u>82</u> %  CAMERA <u>CANON A7S</u> PHOTO NOS. <u>1-8</u>
SERIAL #: <u>0639</u>	SERIAL #: <u>3159</u>	SERIAL #: _____	
CALIBRATOR:  <input checked="" type="checkbox"/> LD CA250 <input type="checkbox"/> _____	Calibration, dB: Input Reading Before <u>114.01</u> <u>7.00 offset</u> After <u>114</u> <u>113.9</u>	TIME: <u>09:42</u> <u>1320</u>	
METER SETTING: A-WTD, SLOW RESPONSE, 1 HOUR INTERVALS LEQ, L01, L10, L25, L50, L90, LMIN, LMAX			

START		NOTES:  off ramp behind 8' sound wall (2) double pane windows - 2nd floor, N-Facade (2) " " " " " " S-Facade calibrated microphone 1/25 2012 uncalibrated microphone 1/27 0740 instrument bag open, unstayed
DATE	TIME	
01-24-05		
STOP		
DATE	TIME	



PARSONS



## **APPENDIX E**

### **Instrumentation Calibration Log**

LD 820 SLM	Cal-Date	Cal-Due Date
A1177	10/29/2004	10/29/2005

LD 812 SLM	Cal-Date	Cal-Due Date
A0639	6/15/2004	6/15/2005

LD 870A SLM	Cal-Date	Cal-Due Date
A0120	11/18/2004	11/18/2005
A0124	11/19/2004	11/19/2005
A0128	5/10/2004	5/10/2005
A0144	2/2/2004	2/2/2005
A0158	11/29/2004	11/29/2005
A0159	11/29/2004	11/29/2005
A0160	3/16/2004	3/16/2005
A0161	4/2/2004	4/2/2005
A0162	2/11/2004	2/11/2005
A0163	2/11/2004	2/11/2005
A0344	11/10/2004	11/10/2005
A0496	1/30/2004	1/30/2005
A0555	2/10/2004	2/10/2005
B1502	11/29/2004	11/29/2005

LD 870B SLM	Cal-Date	Cal-Due Date
B1047	1/17/2005	1/17/2006
B1190	1/17/2005	1/17/2006
B1392	1/17/2005	1/17/2006

LD 2900 RTA	Cal-Date	Cal-Due Date
A0236	10/10/2004	10/18/2005
A0427	2/18/2006	2/18/2006
A0484	10/30/2002	10/30/2003

Rion NL-31 SLM	Cal-Date	Cal-Due Date
110021	6/14/2004	6/14/2005
110030	9/3/2004	9/3/2005
610323	11/29/2004	11/29/2005
610336	11/10/2004	11/10/2005
610346	1/13/2004	1/13/2005

B&K 4230 Calibrator	Cal-Date	Cal-Due Date
542424	11/29/2004	11/29/2005

LD CA250 Calibrator	Cal-Date	Cal-Due Date
2479	5/12/2004	5/12/2005
2480	2/2/2004	2/2/2005